# TC-WA7ESA/WE505/WE605S/ WE705S/WR550Z

# SERVICE MANUAL

*US Model*
*TC-WA7ESA/WE605S/WR550Z*

*Canadian Model*
*TC-WA7ESA/WE605S*

*AEP Model*
*TC-WE505/WE705S*

*UK Model*
*TC-WE505*

*E Model*
*Australian Model*
*Chinese Model*
*TC-WE605S*

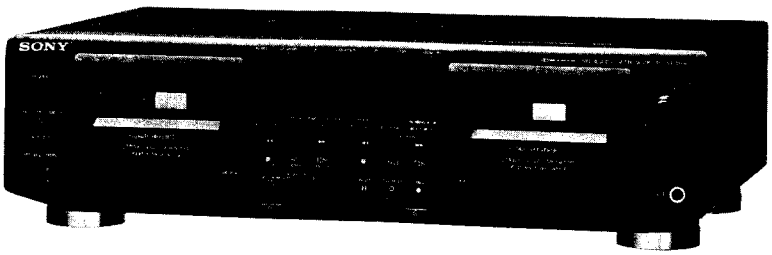


**Photo : TC-WE705S**

* Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.

"DOLBY", the double-D symbol DD and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

| Model Name Using Similar Mechanism | | TC-WA7ES/WR565/WE665S |
|---|---|---|
| Tape Transport Machanism Type | DECK-A | TC-WE605S/WR550Z : TCM-190RA12CL<br>TC-WE505 : TCM-190RA14CL<br>TC-WA7ESA : TCM-190RA17CL<br>TC-WE705S : TCM-190RA18C |
| | DECK- B | TC-WA7ESA/WE705S : TCM-190RB11C<br>TC-WE505/WE605S/WR550Z: TCM-190RB12CL |

## SPECIFICATIONS

### System

**Recording system**
4-track 2-channel stereo

**Fast-winding time (approx.)**
90 sec. (with Sony C-60 cassette)

**High-speed fast-winding time (approx.) (TC-WA7ESA and TC-WE705S only)**
45 sec. (with Sony C-60 cassette)

**Bias**
AC bias

**Signal-to-noise ratio (at peak level and weighted with Dolby NR off)**
Type I tape, Sony Type I (NORMAL): 55 dB
Type II tape, Sony Type II (HIGH): 57 dB
Type IV tape, Sony Type IV (METAL): 58 dB

**S/N ratio improvement (approximate values)**
With Dolby B NR on: 5 dB at 1 kHz, 10 dB at 5 kHz
With Dolby C NR on: 15 dB at 500 Hz, 20 dB at 1 kHz
With Dolby S NR on (unavailable on the TC-WE505): 10 dB at 100 Hz, 24 dB at 1 kHz

**Harmonic distortion**
0.4% (with Type I tape, Sony Type I (NORMAL): 160 nWb/m 315 Hz, 3rd H.D.)
1.8% (with Type IV tape, Sony Type IV (METAL): 250 nWb/m 315 Hz, 3rd H.D.)

**Frequency response (Dolby NR off)**

| Tape type | |
|---|---|
| Type I tape, Sony Type I (NORMAL) | 30 - 16,000 Hz (±3 dB, IEC), 20 - 17,000 Hz (±6 dB) |
| Type II tape, Sony Type II (HIGH) | 30 - 17,000 Hz (±3 dB, IEC), 20 - 18,000 Hz (±6 dB) |
| Type IV tape, Sony Type IV (METAL) | 30 - 19,000 Hz (±3 dB, IEC), 20 - 20,000 Hz (±6 dB), 30 - 13,000 Hz (±3 dB, -4 dB recording) |

– Continued on page 2 –

MICROFILM

STEREO CASSETTE DECK

SONY®

Wow and flutter

| TC-WA7ESA/WE705S/WE605S/ WR550Z | TC-WE505 |
|---|---|
| ±0.13% W. Peak (IEC) | ±0.14% W. Peak (IEC) |
| 0.07% W. RMS (NAB) | 0.08% W. RMS (NAB) |
| ±0.18% W. Peak (DIN) | ±0.19% W. Peak (DIN) |

Variable pitch range (approx.) (TC-WE705S and TC-WE505 only)
-30 to +30%

### Inputs

Line inputs (phono jacks)
Sensitivity : 0.16 V
Input impedance : 47 kilohms

### Outputs

Line outputs (phono jacks)
Rated output level : 0.5 V at a load impedance of 47 kilohms
Load impedance : Over 10 kilohms

Headphones (stereo phone jack)
Output level : 0.25 mW at a load impedance of 32 ohms

### General

Power requirements

| Where purchased | Power requirements |
|---|---|
| US, Canadian, Panama model | 120V AC, 60Hz |
| AEP, UK, German, Malaysia, Singapore, Chinese model | 220 – 230V AC, 50/60Hz |
| Australian model | 240V AC, 50/60Hz |
| E model | 120/220/240V AC, 50/60Hz |

Power consumption
26W

Dimensions (approx) (w/h/d)
UK, and Australian model :
430 × 120 × 303 mm (w/h/d)
(17 × 4 3/4 × 12 inches)
EXCEPT UK, Australian model :
430 × 120 × 290 mm (w/h/d)
(17 × 4 3/4 × 11 1/2 inches)
including projecting parts and controls

Mass (approx.)
4.2 kg (9 lbs 5 oz)

Supplied accessories
Audio connecting cords (2 phono plugs - 2 phono plugs) (2)
Remote commander (RM-J910) (1) :
(WA7ESA : Canadian model)

Design and specifications are subject to change without notice.

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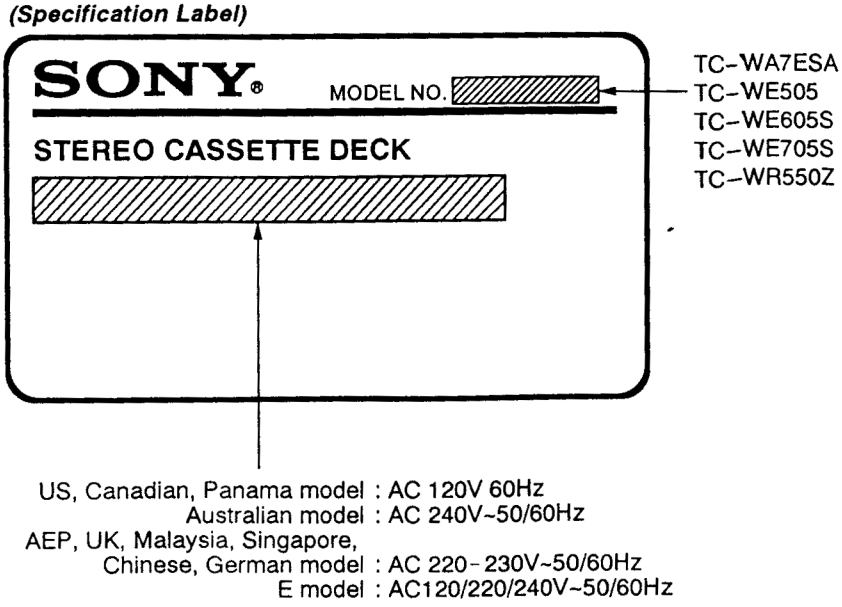
**MODEL IDENTIFICATION**
***(Specification Label)***




US, Canadian, Panama model : AC 120V 60Hz
Australian model : AC 240V~50/60Hz
AEP, UK, Malaysia, Singapore,
Chinese, German model : AC 220-230V~50/60Hz
E model : AC120/220/240V~50/60Hz

# SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

## LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

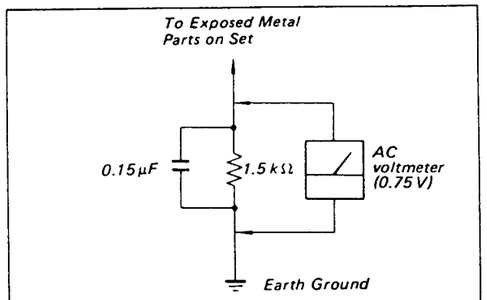


*Fig. A. Using an AC voltmeter to check AC leakage.*

**SAFETY-RELATED COMPONENT WARNING!!**

**COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.**

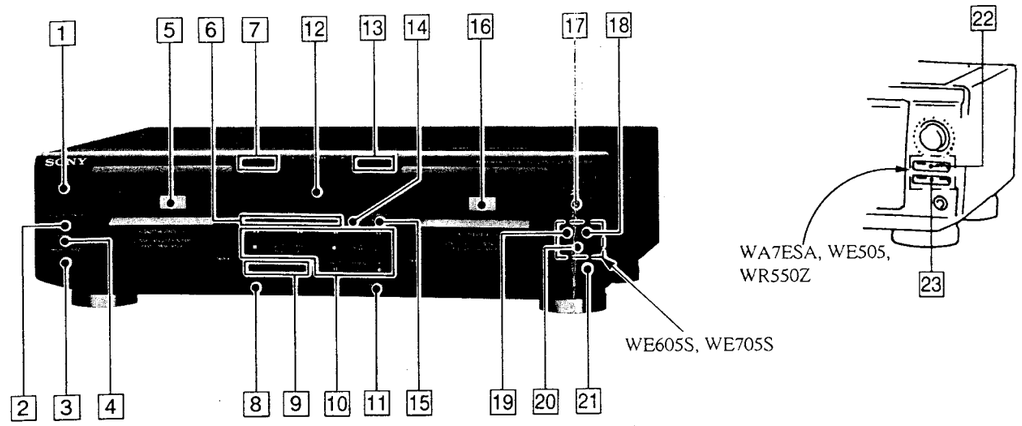
**ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!**

**LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.**



# SECTION 1
# GENERAL

## 1-1. IDENTIFYING THE PARTS




### FRONT PANEL

1 POWER switch
2 DIRECTION MODE switch
3 PITCH control
4 PITCH control ON/OFF switch
5 Deck-A
6 RMS** operation buttons
RMS/START buttons
SET buttons
CHECK buttons
DISPLAY buttons
7 COUNTER buttons (deck-A)
RESET button
MEMORY button
8 ⏏ (eject) button (deck-A)
9 DOLBY NR switches
OFF/ON/FILTER ON switch
B/C/S switch
10 Tape operation buttons
◀◀ (leftward fastwinding)/AMS***/RMS** − button
▶▶ (rightward fastwinding)/AMS***/RMS** +button
■ (stop)/(RMS**) CLEAR button
◁ (reverse play)/(RMS**) BACK button
▷ (forward play)/(RMS**) FRONT button
II PAUSE button
○ REC MUTE (record muting) button
● REC (record muting) button
11 ⏏ (eject) button (deck-B)
12 Display panel
13 COUNTER buttons (deck-B)
RESET button
MEMORY button
14 AUTO CAL button
15 SYNCHRO DUBBING buttons
HIGH button
NORMAL button
16 Deck-B
17 AUTO REC (recording) LEVEL control
18 ARL button
19 FADER button
20 SYNCHRO button
} (WE605S, WE705S)
21 PHONES jack (stereo phone jack)
22 ARL button
23 FADER button
} (WA7ESA, WE505, WR550Z)

** Random Music Sensor
*** Automatic Music Sensor

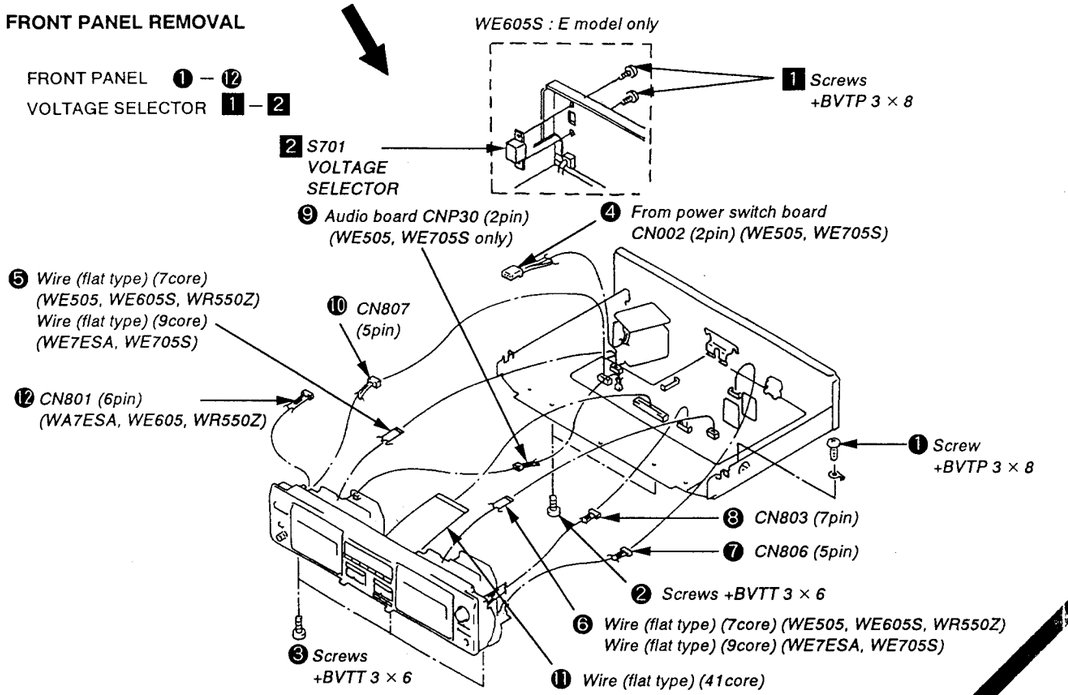
# SECTION 2
# DISASSEMBLY

**Note :** Follow the disassembly procedure in the numerical order given.

**CASE**
Unscrew the four case attachment screws M3 × 8 and remove the case.

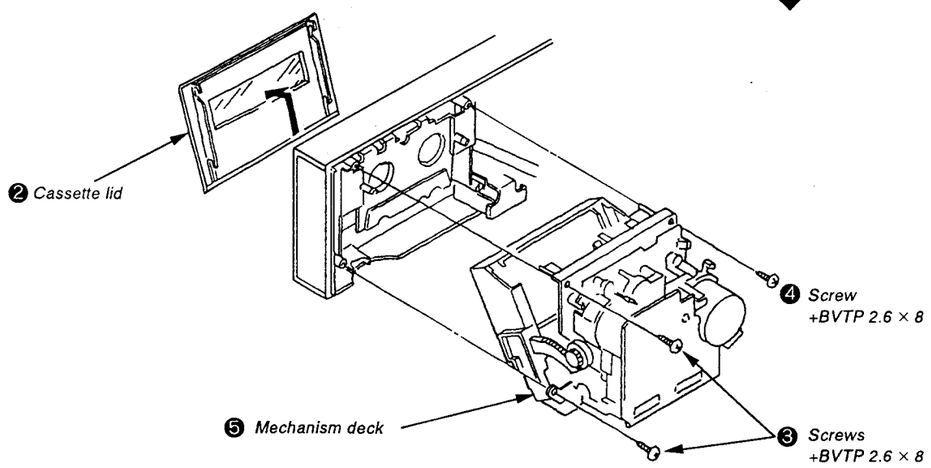
## 2-1. FRONT PANEL REMOVAL

FRONT PANEL ❶ – ⓬
VOLTAGE SELECTOR 1 – 2


WE605S : E model only
1 Screws +BVTP 3 × 8
2 S701 VOLTAGE SELECTOR
❾ Audio board CNP30 (2pin) (WE505, WE705S only)
❹ From power switch board CN002 (2pin) (WE505, WE705S)
❺ Wire (flat type) (7core) (WE505, WE605S, WR550Z) Wire (flat type) (9core) (WE7ESA, WE705S)
❿ CN807 (5pin)
⓬ CN801 (6pin) (WA7ESA, WE605, WR550Z)
❶ Screw +BVTP 3 × 8
❽ CN803 (7pin)
❼ CN806 (5pin)
❷ Screws +BVTT 3 × 6
❻ Wire (flat type) (7core) (WE505, WE605S, WR550Z) Wire (flat type) (9core) (WE7ESA, WE705S)
❸ Screws +BVTT 3 × 6
⓫ Wire (flat type) (41core)

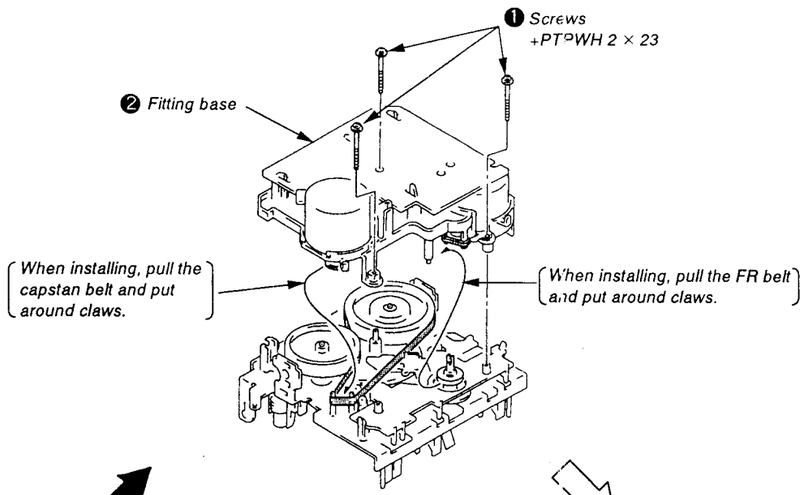
## 2-2. MECHANISM DECK

❶ Press the EJECT button.

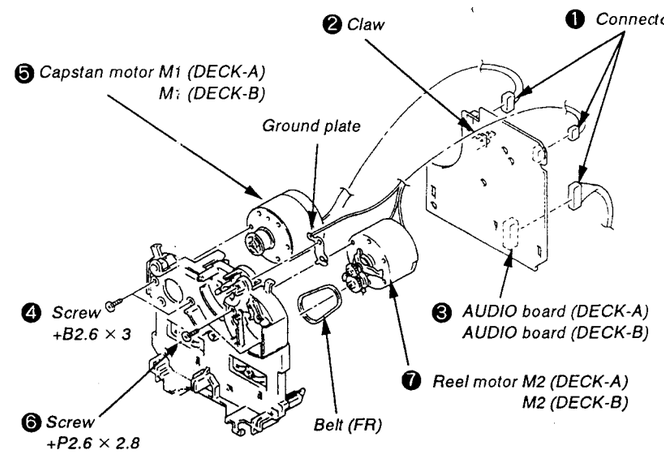




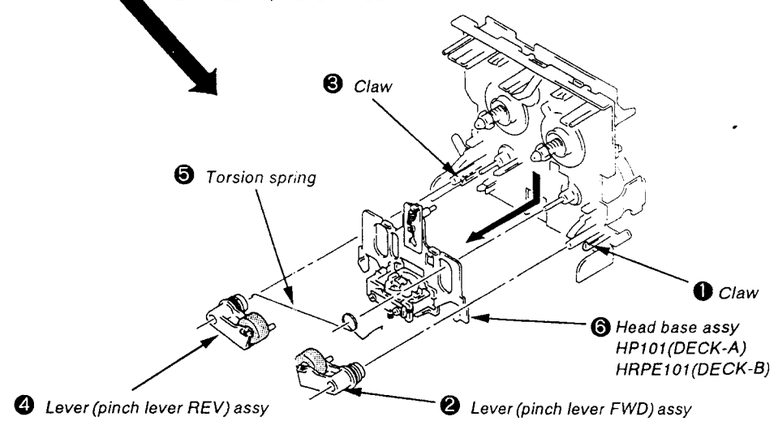

## 2-3. CAPSTAN MOTOR, REEL MOTOR


❶ Screws +PTPWH 2 × 23
❷ Fitting base
When installing, pull the capstan belt and put around claws.
When installing, pull the FR belt and put around claws.

Remove the cassette holder


❷ Claw
❶ Connectors
❺ Capstan motor M1 (DECK-A) M1 (DECK-B)
Ground plate
❹ Screw +B2.6 × 3
❸ AUDIO board (DECK-A) AUDIO board (DECK-B)
❼ Reel motor M2 (DECK-A) M2 (DECK-B)
❻ Screw +P2.6 × 2.8
Belt (FR)

## 2-4. HEAD, PINCH ROLLER


❸ Claw
❺ Torsion spring
❶ Claw
❻ Head base assy HP101(DECK-A) HRPE101(DECK-B)
❹ Lever (pinch lever REV) assy
❷ Lever (pinch lever FWD) assy

# SECTION 3
# ADJUSTMENTS

## 3-1. MECHANICAL ADJUSTMENTS

### PRECAUTION

1. Clean the following parts with a denatured alcohol-moistened swab:
   record/playback/erase head  pinch roller
   rubber belts  capstan
   idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustment.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

**Torque Measurement**

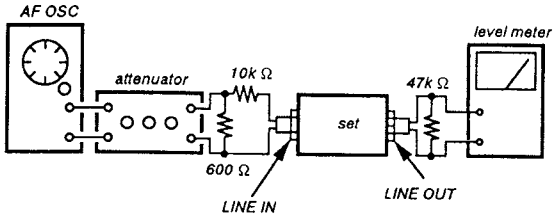
| Torque | Torque meter | Meter reading |
|---|---|---|
| Forward | CQ-102C | 30 to 65g • cm (0.42 to 0.9 oz • inch) |
| Forward back tension | CQ-102C | DECK-A : 1 to 6g • cm (0.014 to 0.083 oz • inch)<br>DECK-B : 2 to 9g • cm (0.03 to 0.12 oz • inch) |
| Reverse | CQ-102RC | 30 to 65g • cm (0.42 to 0.9 oz • inch) |
| Reverse back tension | CQ-102RC | 1 to 6g • cm (0.014 to 0.083 oz • inch) |
| FF/REW | CQ-201B | 70 to 120g•cm (0.98 to 1.66 oz•inch) |

## 3-2. ELECTRICAL ADJUSTMENTS

### PRECAUTION

1. The adjustment should be performed in the publication. (Be sure to male playback adjustment at first.)
2. The adjustments and measurement should be performed for both L-CH and R-CH.
   - Switch position
     DOLBY NR switch : OFF
     DIRECTION MODE switch : ⇄
   - Standard record position :
     Deliver the standard input signal level to input jack and set the REC LEVEL control to obtain the standard output signal level as follows.

– Record Mode –




**Standard Input Level**

| Input terminal | LINE IN |
|---|---|
| source impedance | 10k Ω |
| input signal level | 0.5V ( − 3.8dB) |

**Standard Output Level**

| Output terminal | LINE OUT |
|---|---|
| load impedance | 47k Ω |
| output signal level | 0.5V ( − 3.8dB) |

**Test Tape**

| Tape | Contents | Use |
|---|---|---|
| P-4-A100 | 10kHz, − 10dB | Azimuth Adjustment |
| P-4-L300 | 315Hz, 0dB | PB Level Adjustment |
| WS-48B | 3kHz, 0dB | Tape Speed Adjustment |

0dB=0.775V

### Test Mode

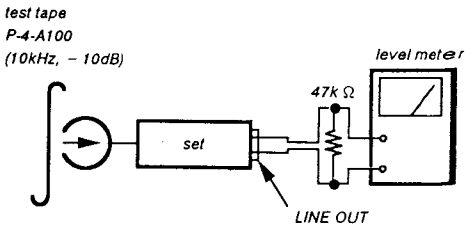
1. Insert a short-circuit plug into TP801 (2P) and turn ON the power switch.
   At first, all the fluorescent tubes light up, then the system returns to normal display. (However, "0,00" is not displayed on the counter.)
2. To release the test mode, remove the short plug and turn off the power switch.
3. Remove the short plug after completion of adjustment.

### Record/Playback Head Azimuth Adjustment

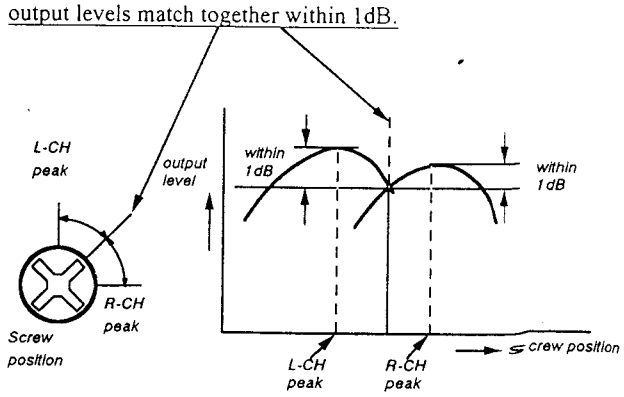
DECK-A DECK-B

**Procedure :**

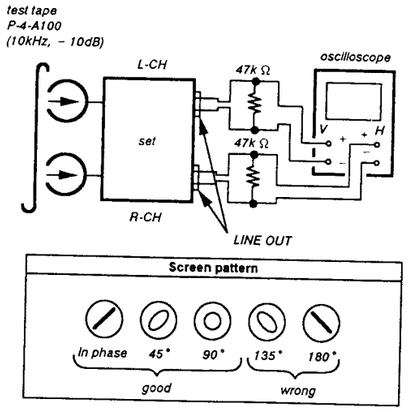
1. Forward playback Mode




2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1dB.



3. Playback Mode




4. Change the reveres playback mode and repeat the steps 1 to 3.
5. After the adjustment, lock the adjustment screws with suitable locking compound.

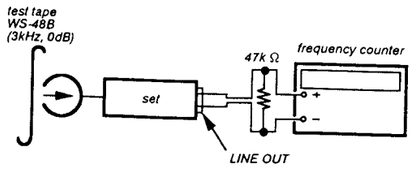
**Adjustment Location :** – record/playback head –




**Tape Speed Adjustment** DECK-A DECK-B

**Procedure :**

– Forward Playback Mode –




(High speed adjustment)
1. Set to test mode. (Refer to page 7)
2. Set to FWD playback mode.
3. Keep on pressing the HIGH SPEED DUBBING switch.
4. Adjust RV72 so that the frequency counter reading becomes 6,000 ± 20Hz.
5. Release test mode after adjustment is completed.

(Normal speed adjustment)
1. Set to FWD playback mode.
2. Adjust RV71 so that the frequency counter reading becomes 3,000 ± 10Hz.

(Pitch control adjustment) (TC-WE505/WE705S only)
1. Turn ON the PITCH CONTROL switch.
2. Set RV902 to mechanical center.
3. Set to FWD playback mode.
4. Adjust RV601 so that the frequency counter reading becomes 3,000 ± 10Hz.

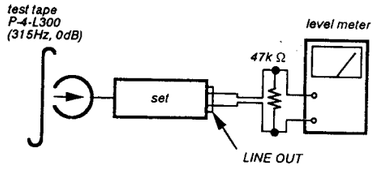
Frequency difference between the beginning and the end of the tape should be within 3%.
Frequency difference between the deck A and deck B the beginning of the tape should be within 1.5%.

**Adjustment Location :** AUDIO board, MAIN board. (See page 10)

**Playback Level Adjustment** DECK-A DECK-B

**Procedure :**

– Forward Playback Mode –




Adjust RV11(L-CH) and RV21(R-CH) so the level meter reading becomes the adjustment limits below.

**Adjustment Value :**

LINE OUT level : – 7.7 ± 0.5dB (0.301 to 0.338V)

Level difference between channels : within 0.5dB

Confirm the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

**Adjustment Location :** AUDIO board. (See page 10)

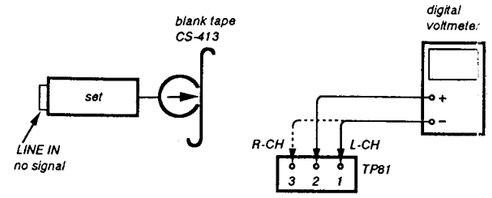


**Bias Consumption Current Adjustment** DECK-B

This adjustment should be performed when replacing the head assy or the bias oscillating transformer (T81, T91).

**Procedure :**

〈 〉: R-CH




1. Connect the digital voltmeter to test point TP81.
2. Set RV81〈RV91〉 to mechanical center.
3. Set to FWD record mode.
4. Adjust T81〈T91〉 so that the digital voltmeter reading becomes minimum.

**Adjustment Value :** Maximum 220mV

**Adjustment Location :** AUDIO board. (See page 10)

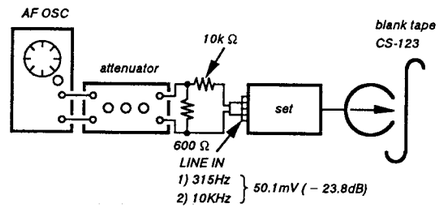
**Record Bias Adjustment** DECK-B

**Setting :**

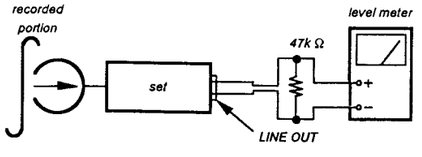
REC LEVEL control : standard record position (Refer to page 7.)

**Procedure :**

1. Record Mode




2. Playback Mode




Confirm that the 10kHz playback output is 0 ± 0.5dB relative to the 315Hz output. If necessary, adjust RV81 (L-CH), RV91(R-CH) and repeat the steps given above.

**Adjustment Location :** AUDIO board. (See page 10)

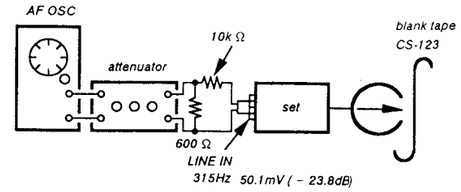
**Record Level Adjustment** DECK-B

**Setting :**

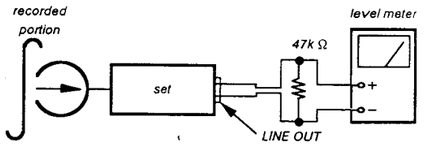
REC LEVEL control : standard record position (Refer to page 7.)

**Procedure :**

1. Record Mode




2. Playback Mode




Confirm playback the tape recorded become adjustment level as follows.
If necessary, adjust RV101(L-CH), RV201(R-CH) and repeat the steps 1 and 2.

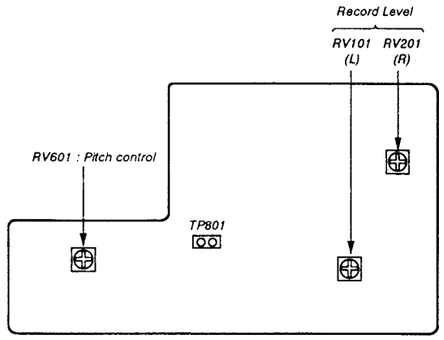
**Adjustment Value :**

LINE OUT level : – 23.8 ± 0.5dB (47.2 to 53mV)

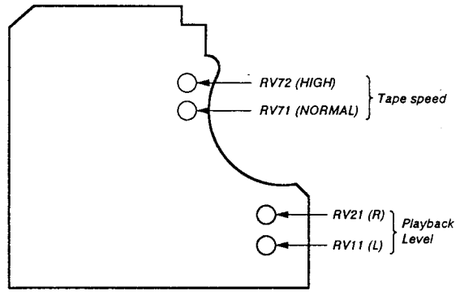
**Adjustment Location :** MAIN board. (See page 10)

– Adjustment Parts Location Diagrams –

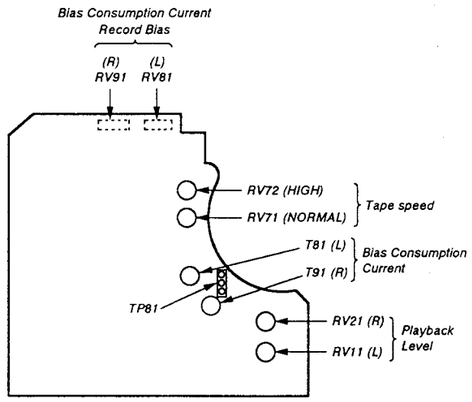
**[MAIN BOARD]**




DECK-A :
**[AUDIO BOARD]**




DECK-B :
**[AUDIO BOARD]**






# SECTION 4
# EXPLANATION OF IC TERMINALS

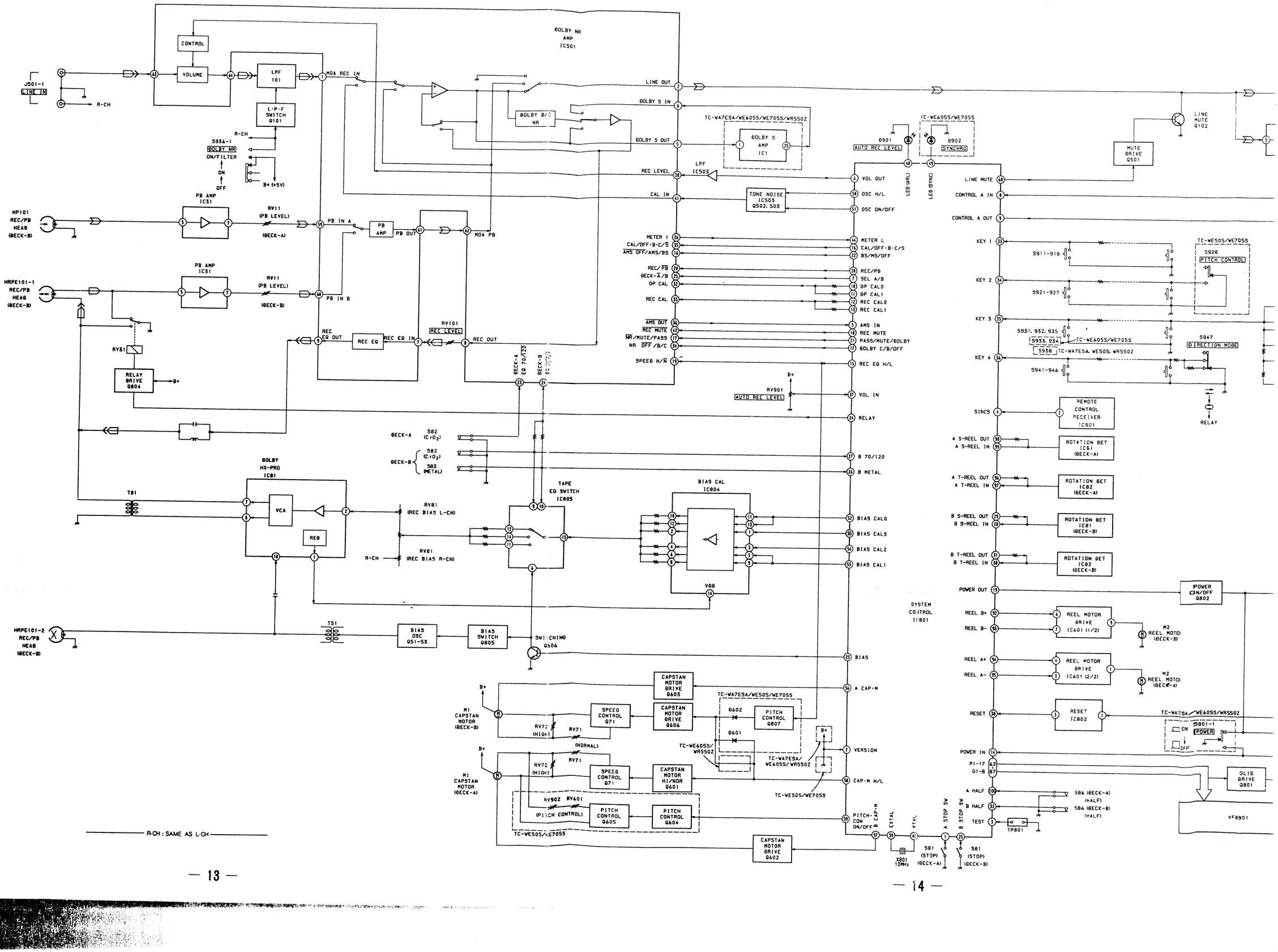
**IC801 CXP8224-043Q (SYSTEM CONTROL/VFD DRIVE)**

| Pin No. | Pin name | I/O | Description |
|---|---|---|---|
| 1 | A STOP SW | I | Mechanism stop switch for deck-A. H : Stop |
| 2 | VERSION | I | Virsion select terminal. |
| 3 | TEST | I | Test mode select terminal. L : Test |
| 4 | SIRCS | I | Sircs signal input terminal. |
| 5 | AMS IN | I | AMS signal input terminal. L : Music present. |
| 6 | VOL OUT | O | REC level control output (PWM). |
| 7 | SEL A/B | O | Playback A/B selector. L : A, H : B |
| 8 | CONTROL A IN | I | Control A input. |
| 9 | CONTROL A OUT | O | Control A output. |
| 10 | GP CAL 0 | O | GEQ CAL-0 output for auto calibration. |
| 11 | GP CAL 1 | O | GEQ CAL-1 output for auto calibration. |
| 12 | REC CAL 0 | O | Recording CAL-0 output for auto calibration. |
| 13 | REC COL 1 | O | Recording CAL-1 output for auto calibration. |
| 14 | POWER IN | I | Power OFF Detection terminal. |
| 15 | REC EQ H/L | O | REC EQ high/normal select. L : Normal. |
| 16 | CAL/OFF, B, C/S | O | Audio Selector. H : CAL/Open : NR-OFF, B, C/L : NR-S. |
| 17 | DOLBY C/B/OFF | O | Dolby NR Selector. H : C/Open : B/L : OFF. |
| 18 | REC MUTE | O | Recording mute output. L : Mute ON, H : Mute OFF. |
| 19 | POWER OUT | O | Power hold output. |
| 20 | REC/PB | O | Dolby NR mode selector. L : Playback, H : Record. |
| 21 | PASS/MUTE/DOLBY | O | Audio selector. L : Dolby/Open : Mute/H : Pass. |
| 22 | BS/AMS/OFF | O | AMS amp selector. L : OFF/Open : AMS/H : OFF. |
| 23 | BIAS | O | Bias ON/OFF output. L : OFF, H : ON. |
| 24 | RELAY | O | Relay record/playback selector. L : Record. |
| 25 | B STOP SW | I | Mechanism stop switch for deck-B. |
| 26 | B METAL | I | Deck-B metal tape detection. |
| 27 | B 70/120 | I | 70/120 $\mu$ tape selector (deck-B). L : with claw. |
| 28 | B S-REEL IN | I | Supply reel rotation detection at deck-B. |
| 29 | B S-REEL OUT | O | Supply reel rotation detection at deck-B. |
| 30 | B T-REEL IN | I | Take-up reel rotation detection at deck-B. |
| 31 | B T-REEL OUT | O | Take-up reel rotation detection at deck-B. |
| 32 | B-HALF | I | Half pawl input at deck-B. (A/B converter) |
| 33 | KEY 1 | I | KEY 1 input (A/D converter). |
| 34 | KEY 2 | I | KEY 2 input (A/D converter). |
| 35 | KEY 3 | I | KEY 3 input (A/D converter). |
| 36 | KEY 4 | I | KEY 4 input (A/D converter). |
| 37 | VOL IN | I | Record volume input. (A/D converter) |
| 38 | $\overline{\text{RESET}}$ | I | System reset input terminal. |
| 39 | EXTAL | I | System clock oscillator input. (10.0MHz) |
| 40 | EXTAL | O | System clock oscillator output. (10.0MHz) |

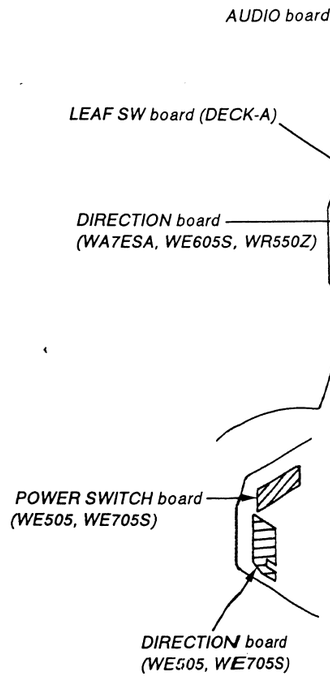
| Pin No. | Pin name | I/O | Description |
|---|---|---|---|
| 41 | Vss | – | Ground. |
| 42 | TX | – | Not used. (Ground connection) |
| 43 | TEX | – | Not used. (Ground connection) |
| 44 | METER L | I | Meter L-CH input. (A/D converter) |
| 45 | METER R | I | Meter R-CH input. (A/D converter) |
| 46 | AVREF | I | Reference voltage input for A/D converter. |
| 47 | AVss | – | Ground for A/D converter. |
| 48 | LED (ARL) | O | ARL LED ON/OFF driver. H : ON. |
| 49 | LED (SYNC) | O | CD synchro LED ON/OFF drive. H : ON. |
| 50 | OSC H/L | O | OSC frequency H/L selection for auto calibration. |
| 51 | OSC ON/OFF | O | OSC ON/OFF output for auto calibration. |
| 52 | BIAS CAL 0 | O | EQ bias CAL-0 output for auto calibration. |
| 53 | BIAS CAL 1 | O | EQ bias CAL-1 output for auto calibration. |
| 54 | BIAS CAL 2 | O | EQ bias CAL-2 output for auto calibration. |
| 55 | BIAS CAL 3 | O | EQ bias CAL-3 output for auto calibration. |
| 56 | A CAP. M | O | Capastan motor ON/OFF control at deck-A. H : ON. |
| 57 | B CAP. M | O | Capastan motor ON/OFF control at deck-B. H : ON. |
| 58 | CAP. M H/L | O | Capastan motor high/normal selector. L : High. |
| 59 | PITCH. CON ON/OFF | O | Pitch control ON/OFF. H : ON. |
| 60 | LINE MUTE | O | Line mute ON/OFF output. L : Mute. |
| 61 – 77 | P17 – P1 | O | VFD segment drive. |
| 78 – 85 | G1 – G8 | O | VFD grid drive. |
| 86 | G6, G7 | O | |
| 87 | G7, G8 | O | |
| 88 | VFDP | – | VFD power. ( – 28V) |
| 89 | VDD | – | Power supply. (+5V) |
| 90 | NC | – | Not used. (VDD connection) |
| 91 | Vss | – | Ground. |
| 92 | REEL B + | O | Reel motor (+) output at deck-B. |
| 93 | REEL B – | O | Reel motor ( – ) output at deck-B. |
| 94 | REEL A + | O | Reel motor (+) output at deck-A. |
| 95 | REEL A – | O | Reel motor ( – ) output at deck-A. |
| 96 | A T-REEL OUT | O | Take-up reel rotation detection at deck-A. |
| 97 | A T-REEL IN | I | Take-up reel rotation detection at deck-A. |
| 98 | A S-REEL OUT | O | Supply reel rotation detection at deck-B. |
| 99 | A S-REEL OUT | I | Supply reel rotation detection at deck-B. |
| 100 | A HALF | I | Half pawl input at deck-A. L : with claw. |

# SECTION 5
# DIAGRAMS

## 5-1. BLOCK DIAGRAM

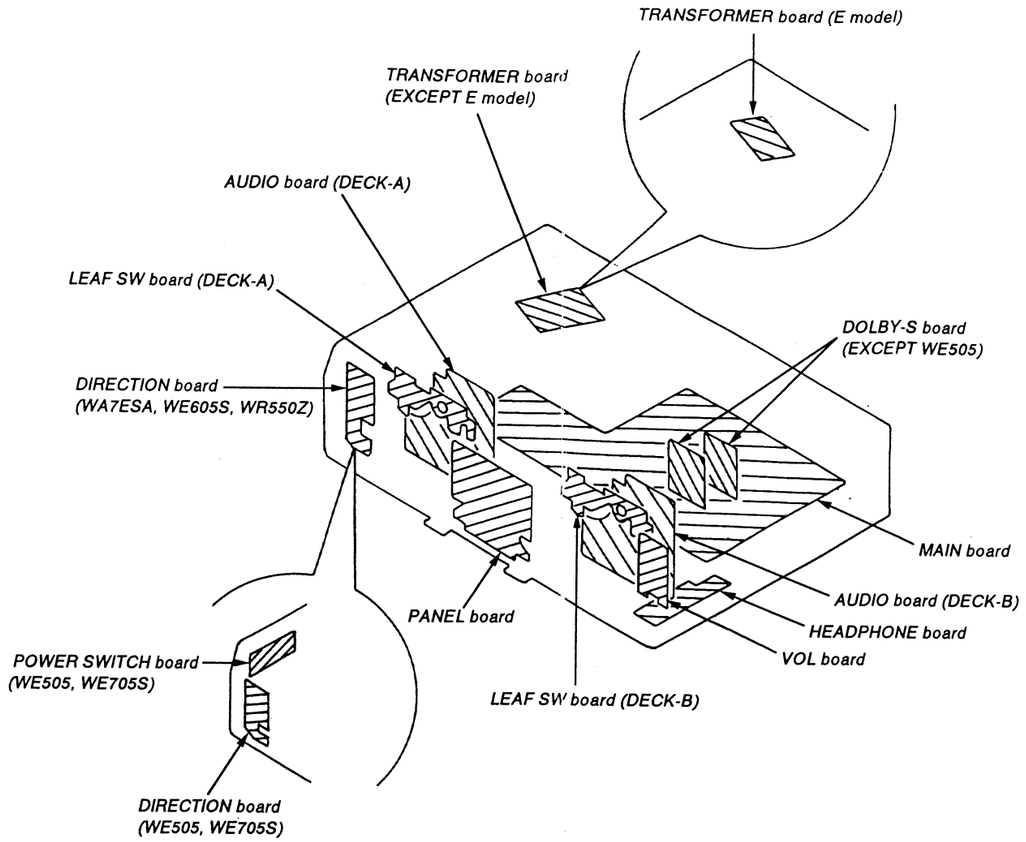


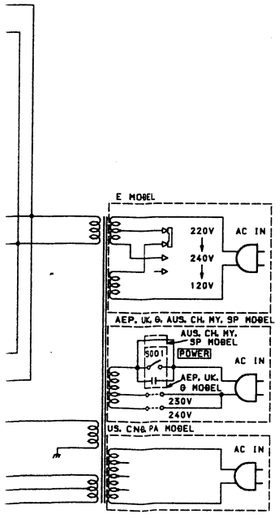
## • CIRCUIT BOARDS LOCATION




- Signal path.
  - ▷ : PB ( DECK A )
  - ▷ : PB ( DECK B )
  - ▷» : REC ( DECK B )
- Abbreviation
  - CND : Canadian
  - G : German
  - AUS : Australian
  - CH : Chinese
  - SP : Singapore
  - MY : Malaysia
  - PA : Panama

## • CIRCUIT BOARDS LOCATION




• Signal path.
- : PB ( DECK A )
- : PB ( DECK B )
- : REC ( DECK B )

• Abbreviation

| | |
|---|---|
| CND | : Canadian |
| G | : German |
| AUS | : Australian |
| CH | : Chinese |
| SP | : Singapore |
| MY | : Malaysia |
| PA | : Panama |

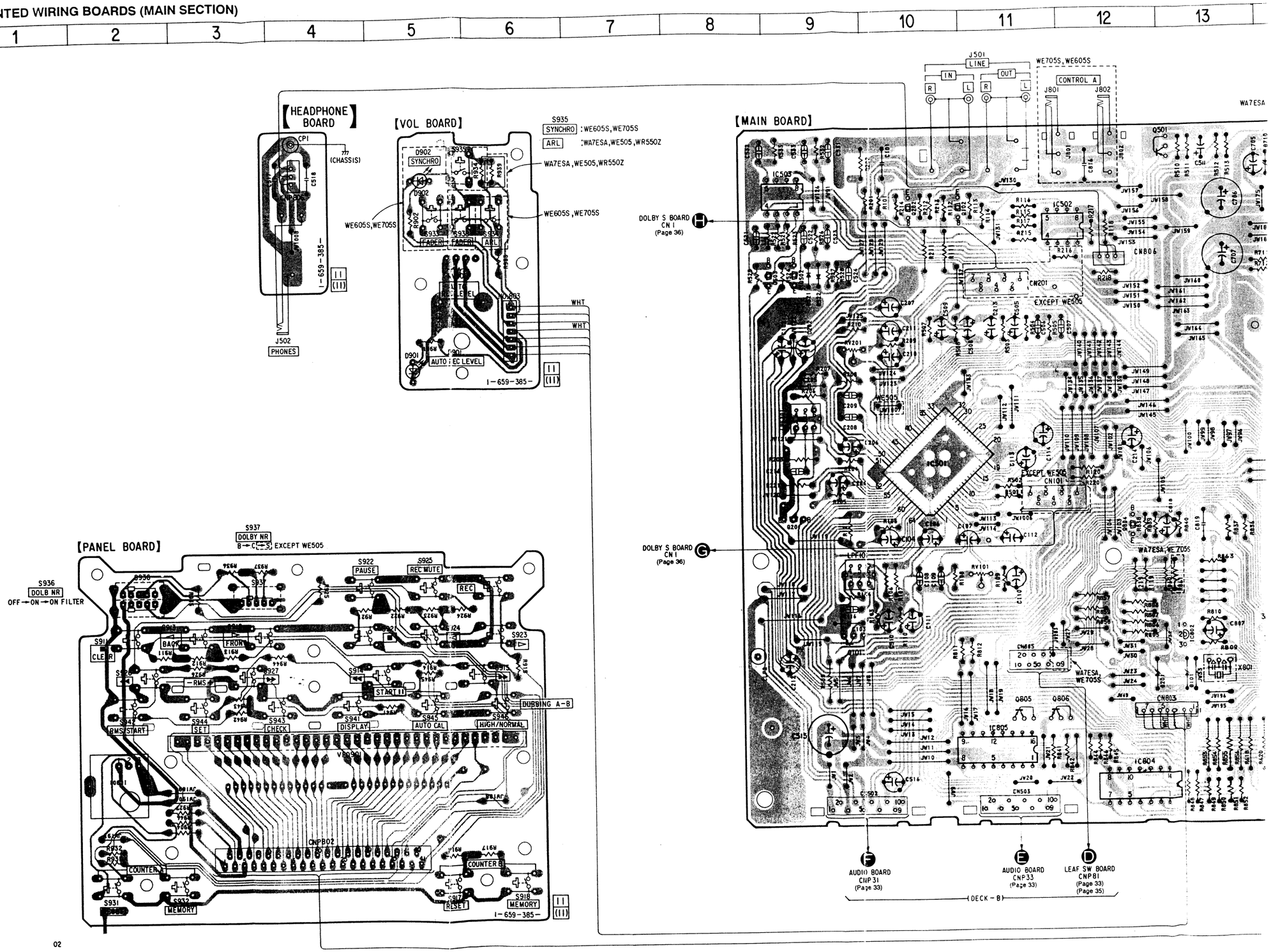
## 5-2. PRINTED WIRING BOARDS (MAIN SECTION)

### • SEMICONDUCTOR LOCATION

| Ref. No. | Location | Ref. No. | Location |
|---|---|---|---|
| D101 | G - 13 | IC801 | F - 14 |
| D201 | G - 13 | IC802 | G - 13 |
| D521 | C - 9 | IC804 | H - 12 |
| D522 | C - 9 | IC805 | H - 11 |
| D601 | H - 17 | IC901 | H - 2 |
| D602 | H - 17 | | |
| D701 | B - 16 | Q101 | G - 9 |
| D702 | B - 16 | Q102 | B - 10 |
| D703 | C - 16 | Q201 | E - 9 |
| D704 | C - 16 | Q202 | B - 10 |
| | | Q501 | B - 13 |
| D705 | B - 16 | | |
| D706 | B - 16 | Q502 | G - 9 |
| D707 | D - 16 | Q503 | G - 9 |
| D708 | B - 14 | Q601 | H - 17 |
| D709 | B - 14 | Q602 | H - 18 |
| | | Q603 | H - 17 |
| D710 | B - 14 | | |
| D711 | C - 14 | Q604 | H - 17 |
| D712 | B - 16 | Q605 | G - 19 |
| D713 | D - 16 | Q606 | H - 17 |
| D714 | D - 16 | Q701 | B - 15 |
| | | Q702 | D - 14 |
| D715 | D - 15 | | |
| D716 | D - 15 | Q703 | B - 16 |
| D801 | G - 15 | Q704 | B - 16 |
| D802 | G - 15 | Q705 | B - 14 |
| D803 | G - 16 | Q706 | B - 16 |
| | | Q707 | D - 16 |
| D804 | G - 16 | | |
| D805 | E - 15 | Q708 | D - 15 |
| D901 | D - 5 | Q709 | B - 14 |
| D902 | B - 2 | Q801 | G - 15 |
| | | Q802 | E - 16 |
| | | Q803 | E - 15 |
| IC501 | E - 10 | | |
| IC502 | B - 12 | Q804 | E - 12 |
| IC503 | B - 9 | Q805 | G - 11 |
| IC601 | F - 18 | Q806 | G - 11 |
| IC701 | G - 14 | Q807 | H - 17 |

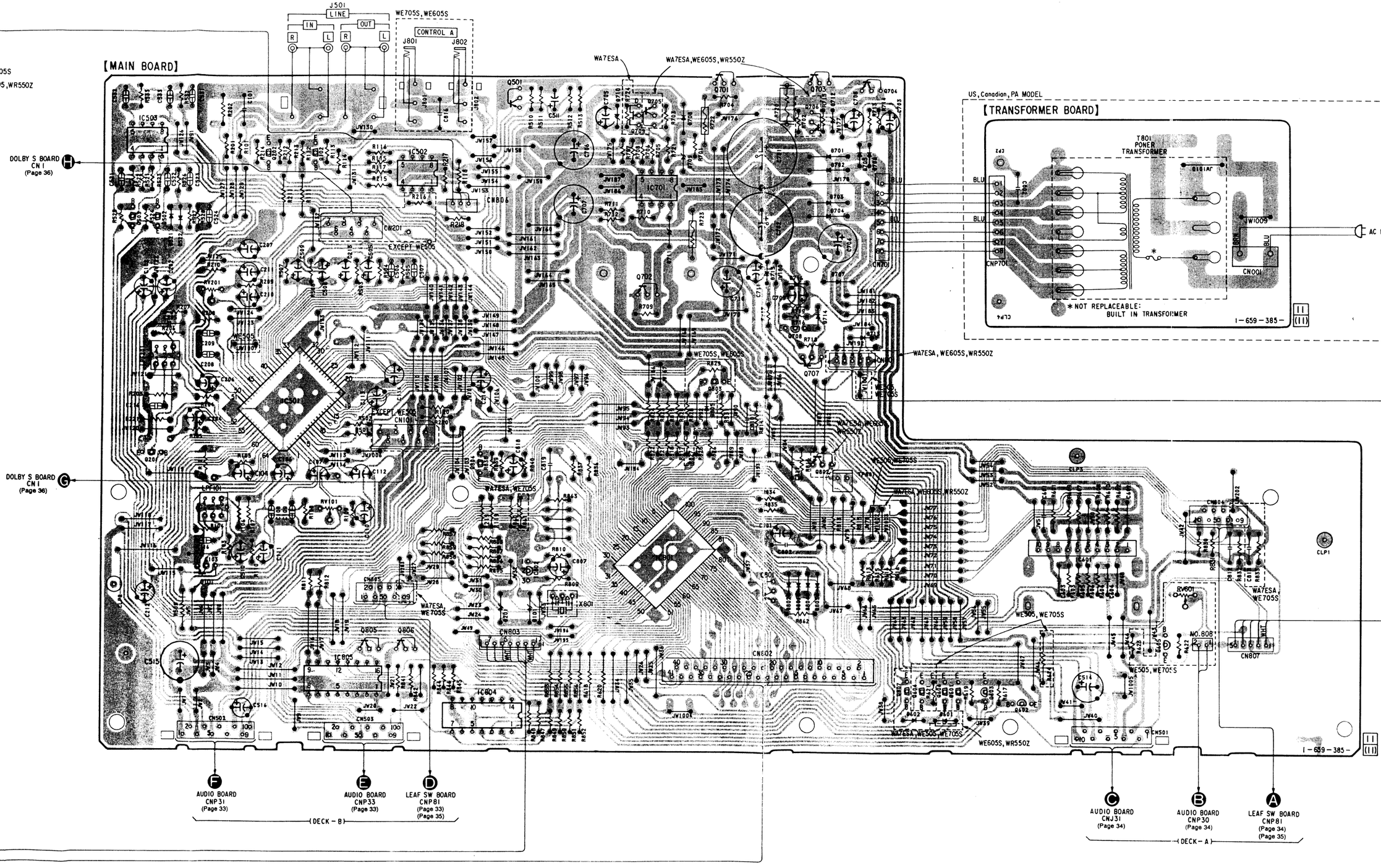
**Note:**

- O— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.
- Abbreviation
  - CND : Canadian
  - G : German
  - AUS : Australian
  - CH : Chinese
  - SP : Singapore
  - MY : Malaysia
  - PA : Panama



,WE705S
,WE505,WR550Z
550Z

【MAIN BOARD】



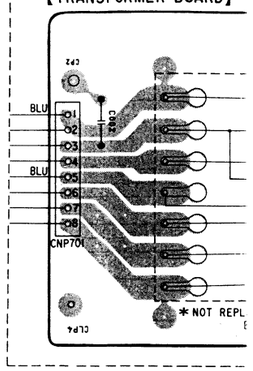

US, Canadian, PA MODEL

【TRANSFORMER BOARD】



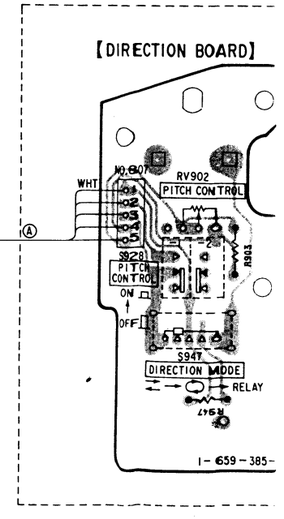

AEP, UK, G, AUS, CH, MY, SP MODEL

【TRANSFORMER BOARD】




TC-WE505/WE705S

【DIRECTION BOARD】



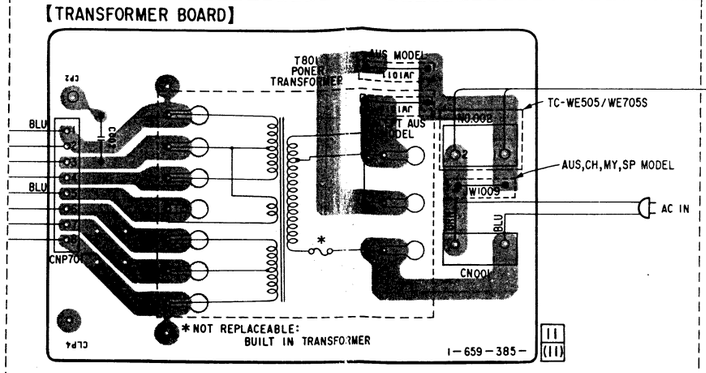
US, Canadian, PA MODEL

【TRANSFORMER BOARD】



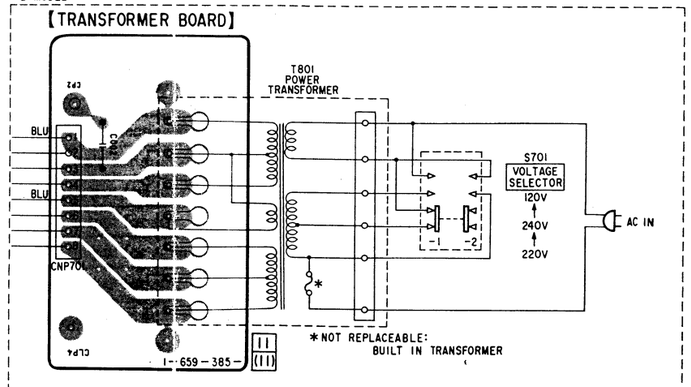

AEP, UK, G, AUS, CH, MY, SP MODEL

【TRANSFORMER BOARD】

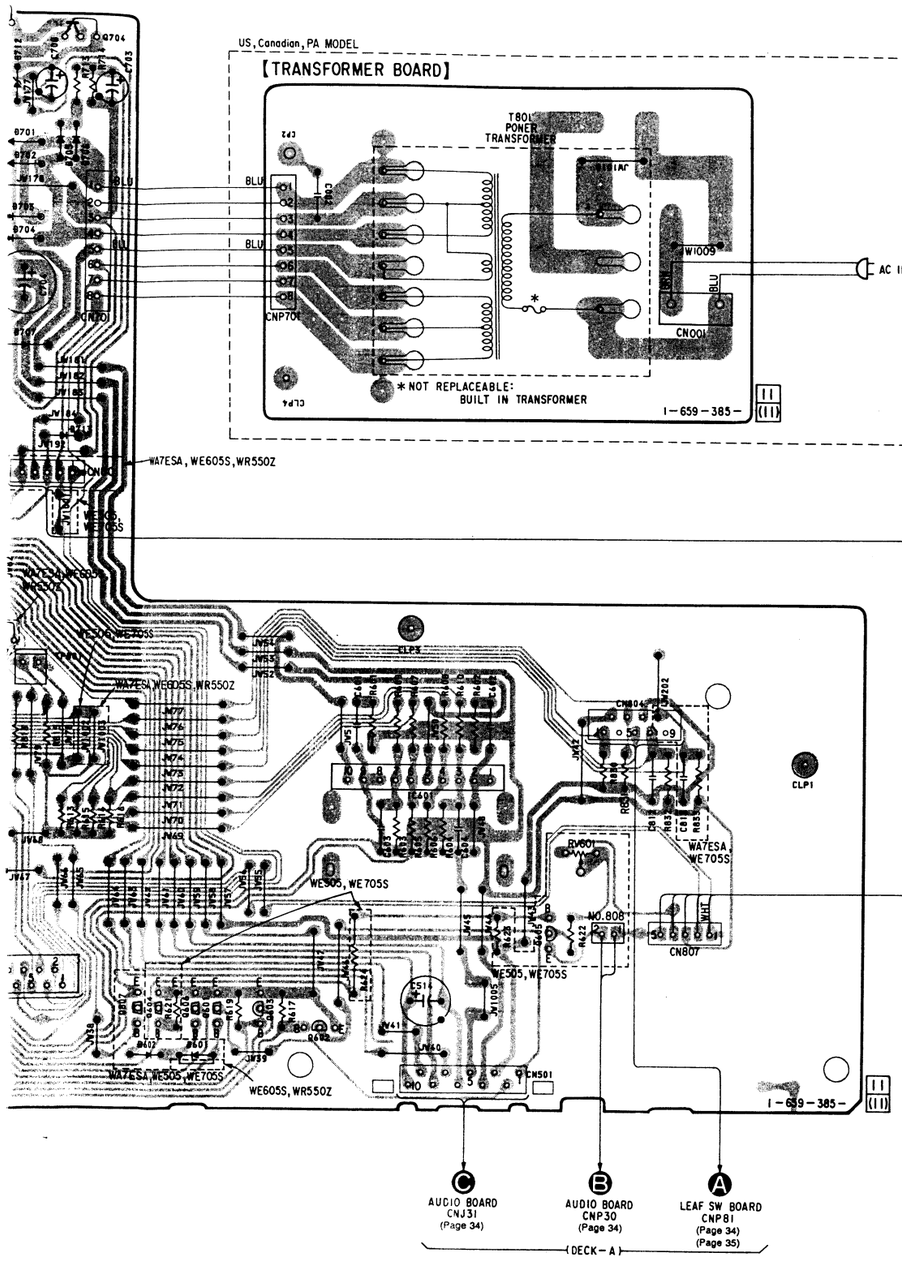



E MODEL

【TRANSFORMER BOARD】

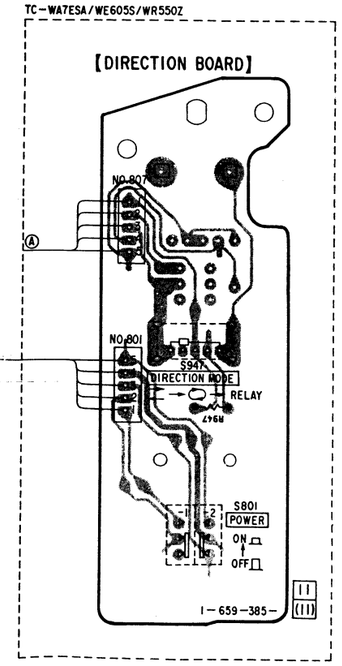



WA7ESA, WE605S, WR550Z



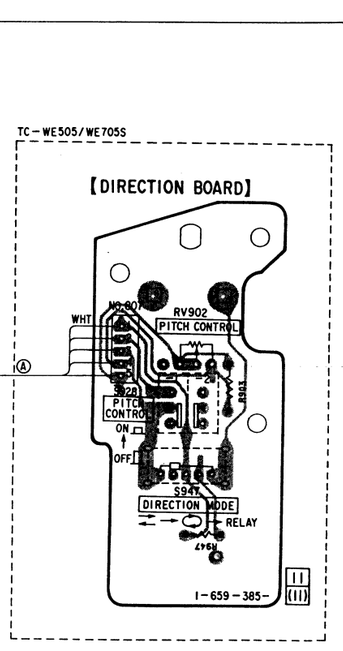

TC-WA7ESA/WE605S/WR550Z

【DIRECTION BOARD】



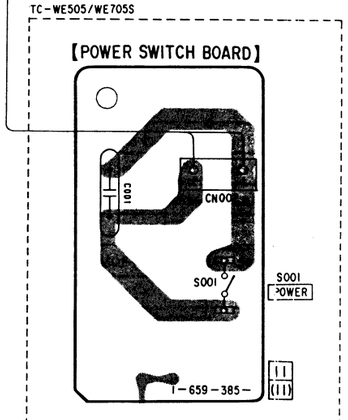

TC-WE505/WE705S

【DIRECTION BOARD】




TC-WE505/WE705S

【POWER SWITCH BOARD】



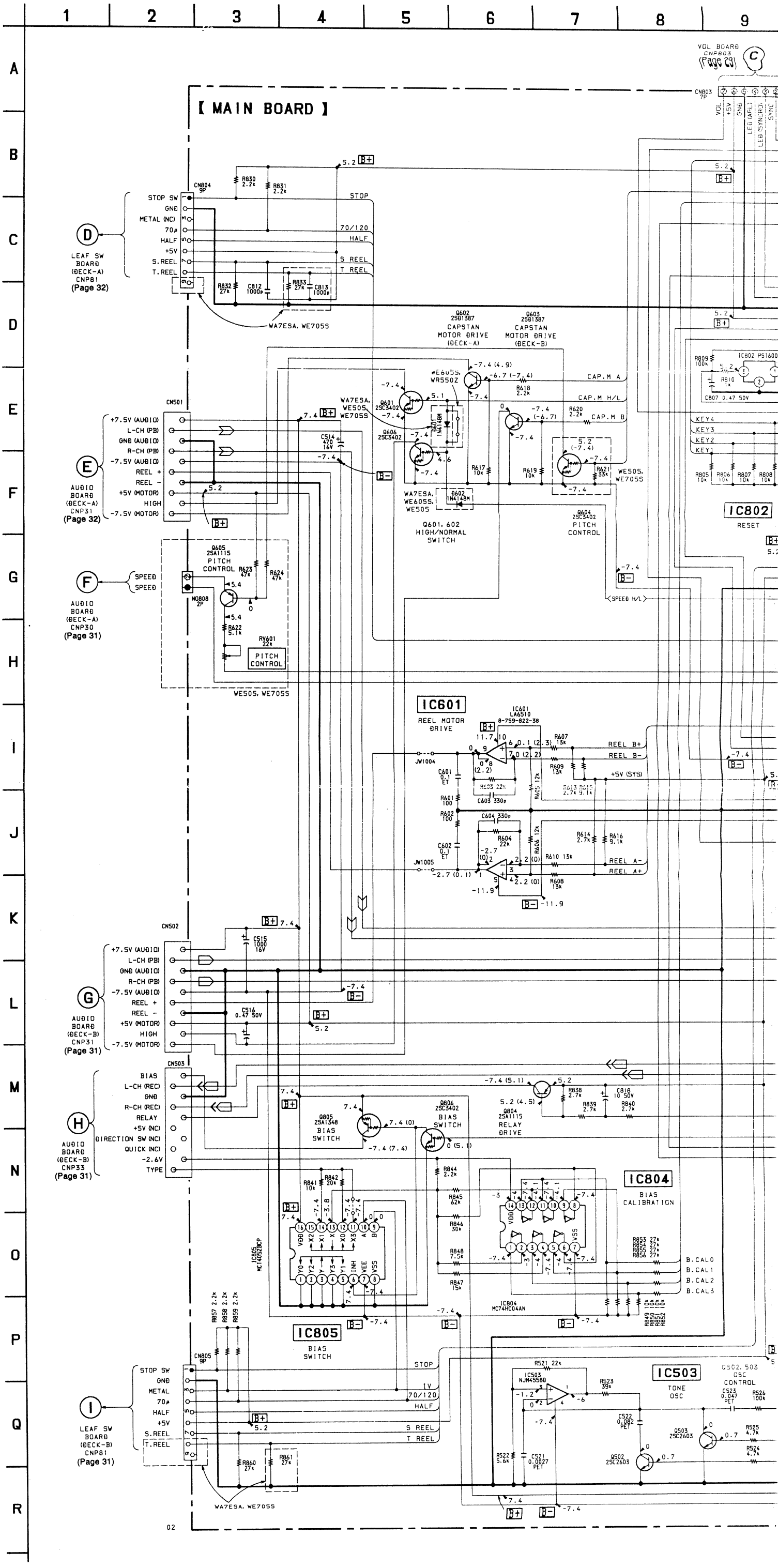

Ⓒ AUDIO BOARD CNJ31 (Page 34)

Ⓑ AUDIO BOARD CNP30 (Page 34)

Ⓐ LEAF SW BOARD CNP81 (Page 34) (Page 35)

(DECK-A)

## 5-3. SCHEMATIC DIAGRAM (MAIN SECTION)



【 MAIN BOARD 】

IC801 SYSTEM CONTROL

IC802 RESET

IC601 REEL MOTOR DRIVE

IC804 BIAS CALIBRATION

IC805 BIAS SWITCH

IC503 TONE OSC

IC501 DOLBY NR

Q601, 602 HIGH/NORMAL SWITCH

Q604 2SC3402 PITCH CONTROL

Q602 2SD1387 CAPSTAN MOTOR DRIVE (DECK-A)

Q603 2SD1387 CAPSTAN MOTOR DRIVE (DECK-B)

Q605 2SA1115 PITCH CONTROL

Q807 2SA1345 SPEED H/L SWITCH

Q805 2SA1348 BIAS SWITCH

Q806 2SC3402 BIAS SWITCH

Q804 2SA1115 RELAY DRIVE

Q502, 503 OSC CONTROL

VOL BOARD CNP803 (Page 29)

LEAF SW BOARD (DECK-A) CNP81 (Page 32)

AUDIO BOARD (DECK-A) CNP31 (Page 32)

AUDIO BOARD (DECK-A) CNP30 (Page 31)

AUDIO BOARD (DECK-B) CNP31 (Page 31)

LEAF SW BOARD (DECK-B) CNP81 (Page 31)

WA7ESA, WE505, WE705S

WE505, WE705S

| | PIN |
|---|---|
| SCHMITT | 1-5, |
| AD | 32-3 |
| C-MOS | 6, 7, |
| C-MOS | 8-14, |
| P-CH | 47-8 |

VOL BOARD
CNP803
(Page 29)

PANEL BOARD
CNP802
(Page 29)

CN803 7P — VOL, +5V, GND, LED (ARL), LED (SYNCRO), SYNC, ARL

CN802 41P — MPX, SYNC, ARL, KEY1, KEY2, KEY3, KEY4, P17, P16, P15, P14, P13, P12, P11, P10, P9, P8, P7, P6, P5, P4, P3, P2, P1, G1, G2, G3, G4, G5, G6, G7, G8, VFDP, F1, F2, +5V, D.GND, PITCH, DIR, SIRCS

## IC801
SYSTEM CONTROL

| | PIN NO. | ON RESET |
|---|---|---|
| SCHMITT | 1-5, 100P | HI-Z |
| AD | 32-37, 44, 45P | HI-Z |
| C-MOS | 6, 7, 15P | H |
| C-MOS | 8-14, 17-31, 92-99P | HI-Z |
| P-CH | 47-87P | HI-Z<br>L (OPT) |

50 OSC H/L
49 LED (SYNC)
48 LED (ARL)
47 AVSS
46 AVREF
45 METER R
44 METER L
43 TEX
42 TX
41 VSS
40 XTAL
39 EXTAL
38 RESET
37 VOL IN
36 KEY 4
35 KEY 3
34 KEY 2
33 KEY 1
32 B HALF
31 B T-REEL OUT

IC802 PST600E — X801 10MHz — D201 UZ-5.1B — D202 UZ-5.1B — R809 100k — R810 1k — C807 0.47 50V

R863 100 — KEY4, KEY3, KEY2, KEY1 — R805 10k, R806 10k, R807 10k, R808 10k — C819 0.1 ET

## IC802
RESET

R837 220k — R836 220k — T REEL / S REEL — 70/120 — STOP — B STOP:5.3 (5.2) 0

B T-REEL IN, B S-REEL OUT, B S-REEL IN, B 70/120, B METAL, B STOP SW, RELAY, BIAS, BS/AMS/OFF, PASS/MUTE/DOLBY, REC/PB, POWER OUT, REC MUTE, DOLBY C/B/OFF, CAL/OFF, B. C/S, REC EQ H/L, POWER IN, REC CAL1, REC CAL0, GP CAL1, GP CAL0, CONTROL A OUT, CONTROL A IN, SEL A/B, VOL OUT, AMS IN, SIRCS, TEST, VERSION, A STOP SW

30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

R822 2.4k, R821 12k, R818 4.7k, R817 5.6k, R823 4.7k, R819 8.2k, R824 4.7k, R820 8.2k, R814 22k, R813 100, C810 22000p, TP801 2P, JW1003, JW1002, R815 33k

DOLBY OFF;0, DOLBY B;2.1, DOLBY C;5.2, DOLBY S;0

IC801 CXP82220-040Q

A T-REEL OUT 96, A T-REEL IN 97, A S-REEL OUT 98, A S-REEL IN 99, A HALF 100

REEL B+ 92, REEL B- 93, REEL A+ 94, REEL A- 95

R835 220k — T REEL
R834 220k — S REEL
HALF 100

TEST MODE
JW1003:WA7ESA. WE605S. WR550Z
JW1002:WE505. WE705S

Q807 2SA1345 SPEED H/L SWITCH — WA7ESA. WE505. WE705S
R812 22k, R811 22k — I II IV

BS/AMS/OFF, PASS/MUTE/DOL, REC/PB, REC MUTE, OFF/B/C, CAL/OFF/S, EQ H/L, REC CAL, GP CAL

STOP

Q801 2SC3399 — D801 1N4148M, D802 1N4148M, D803 1N4148M, D804 1N4148M — R862 100k

G4 81, G5 82, G6 83, G7 84, G8 85, G6, G7 86, G7, G8 87, VFDP 88, VDD 89, NC 90, VSS 91

C801 22000p — C801 100 10V

WE705S, WE605S
Q803 2SC2603 BUFFER — J801 CONTROL A — J802 CONTROL A
R826 10k, R825 10k, R827 4.7k, R828 10k, R829 10, C816 0.1

R816 100k — C811 0.1 ET — Q802 2SC3901 POWER ON/OFF — WA7ESA. WE605S. WR550Z

R815 33k

---

Q101 2SC3901 — R103 100k — C116 0.0039 PET — R107 1k — R509 1k — C510 50V — 3.9

WE505 — R108 3.9k — R110 4.7k — C112 4.7 50V — C113 4.7 50V — RV101 10k CFA — DOLBY LEVEL (L)

LPF101 — R106 3k — C106 4.7 50V — C107 10 50V — C108 0.1 PET — C109 0.068 PET — JW1006 — R109 10k — C111 0.47 50V — R501 27k — R502 20k — C103 4700p

BS/AMS/OFF, PASS/MUTE/DOL, EQ H/L

1 -6.1, 2 -5.8, 3, 4, 5, 6, 7, 8, 9, 10 -6.2, 11 -6.2, 12, 13, 14, 15, 16, 17, 18, 19

MOA REC-IN1 -24dBV, LINE-OUT1 -14dBV, DOLBY-TCH1, DOLBY-TCL1, DOLBY-S-OUT1 -7dBV, DOLBY-S-IN1, REC-EQIN1 -24dBV, REC-OUT1 -7dBV, REC-EQOUT1 -34dBV, IREF, DOLBY-IREF, METER C1, TYPE-N, TYPE-C, TYPE-N, TAPE-TYPE, AMS OFF /AMS/ BS, NR/MUTE/PASS, METER MUTE, SPEED H/M

REC-EQ

R104 1.8k — C104 4.7 50V — R121 47k — R105 3.3k — R205 3.3k — C204 4.7 50V — R221 47k

64 VOL-OUT1 -10dBV
63 VOL-IN1 REC.BAL.VOL -10dBV
62 MOA PB IN1 -11dBV
61 PB-OUT1 -11dBV
60 PB-IN1 -31dBV
59 PB-IN1A1 -31dBV
58 GND
57 PB-IN1A2 -31dBV
56 PB-IN1B2 -31dBV
55 PB-OUT2 -11dBV
54 MOA PB IN2 -11dBV
53 VOL-IN2 REC.BAL.VOL -10dBV
52 VOL-OUT2 -10dBV

PB EQ

CXA1878Q

OFF, ON CAL, REC, PB — MOA PB — NR — DOLBY B/C NR — B/C — S — CAL — SSW DOLBY

REC PASS MUTE — LINE AMP — LINE AMP

CONTROL

DET, MUTE, DET — METER1 1.6V — METER2 (CAL.17.5dBuV)

REC-LEVEL, BALANCE, D-GND, VEE -7.4, GP-CAL 2.6

REC/PB, VCC 7.4, D.VCC 5.2, DECK-AEQ 70/70/120, DECK-BEQ IV/III/I, DECK-A/B, METER1, METER2

70/120 — R119 1k — R219 1k — I II IV — SEL A/B

R120 47k — C114 2.2 50V — C214 2.2 50V — R220 47k

GP CAL, REC CAL, OFF/B/C, CAL/OFF/S, REC MUTE

DOLBY B:2.1, DOLBY C:5.2, DOLBY S:0

DOLBY C:2.1, DOLBY S:0

## IC501
DOLBY NR

IC501 CXA1878Q

R204 1.8k — LPF201 — R206 5k — C203 4700p — C216 0.0039 PET — R207 1k — C206 4.7 50V — C207 10 50V — C208 0.1 PET — C209 0.068 PET — JW1007 — R209 10k — C210 10 50V — C212 4.7 50V — C211 0.47 50V — C509 22 50V — R503 1k — R504 8.2k — C505 1 50V — C213 4.7 50V — C508 0.47 50V — C506 0.047 PET — R505 1M — C507 0.12 — RV201 10k CFA — R208 3.5k — WE505 — R210 4.7k — R507 10k — R508 470

Q201 2SC3901 — R203 100k

## IC503
NJM4558D

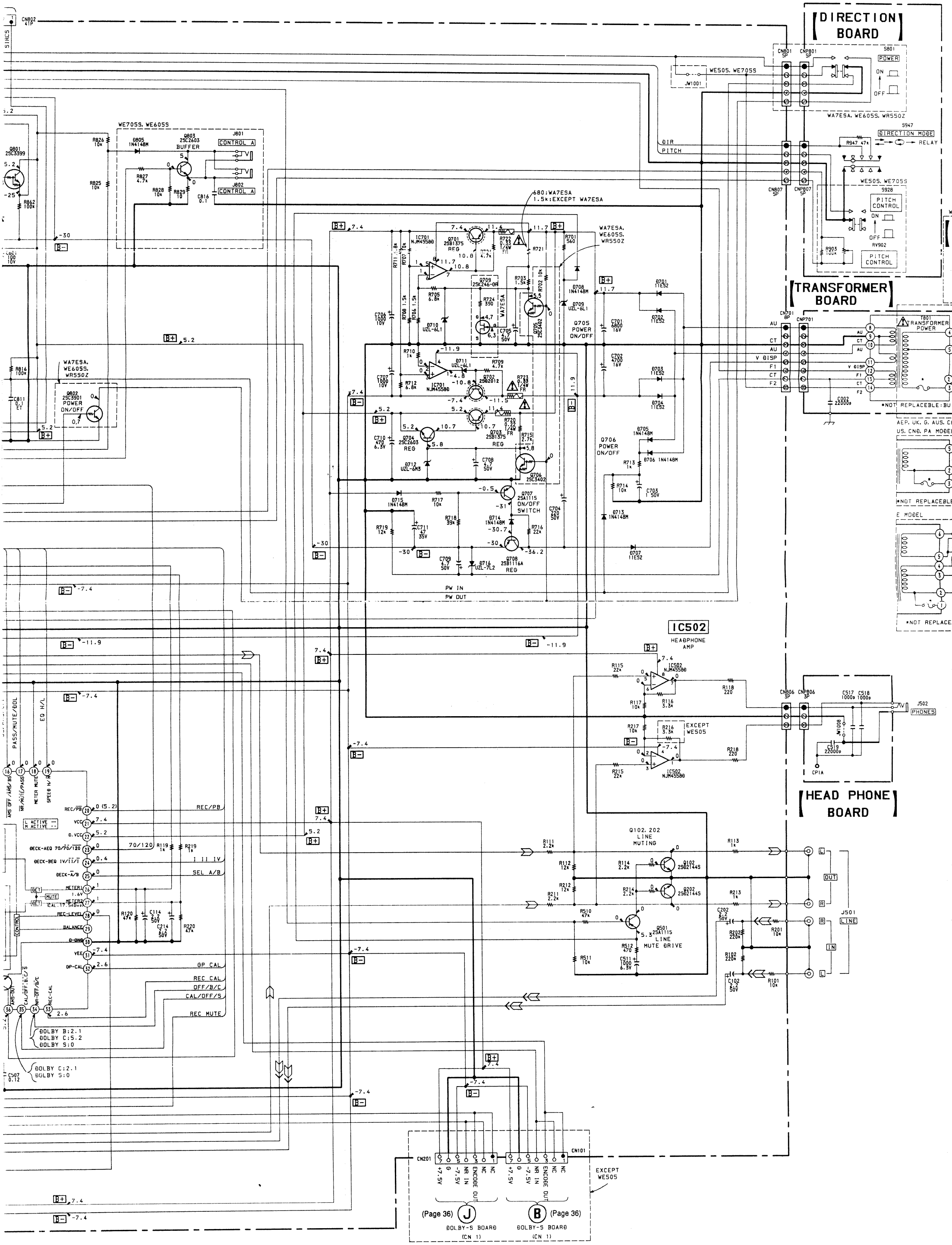
TONE OSC — Q502, 503 OSC CONTROL — C523 0.047 PET — R526 100k — R527 100k — R525 4.7k — R524 4.7k — Q503 2SC2603 — D521 1N4148M — D522 1N4148M — R528 7.5k — C524 0.0022 PET — C533 0.68 TF — R531 47k — R532 47k — R533 47k — C532 0.01 PET — C531 0.18 TF

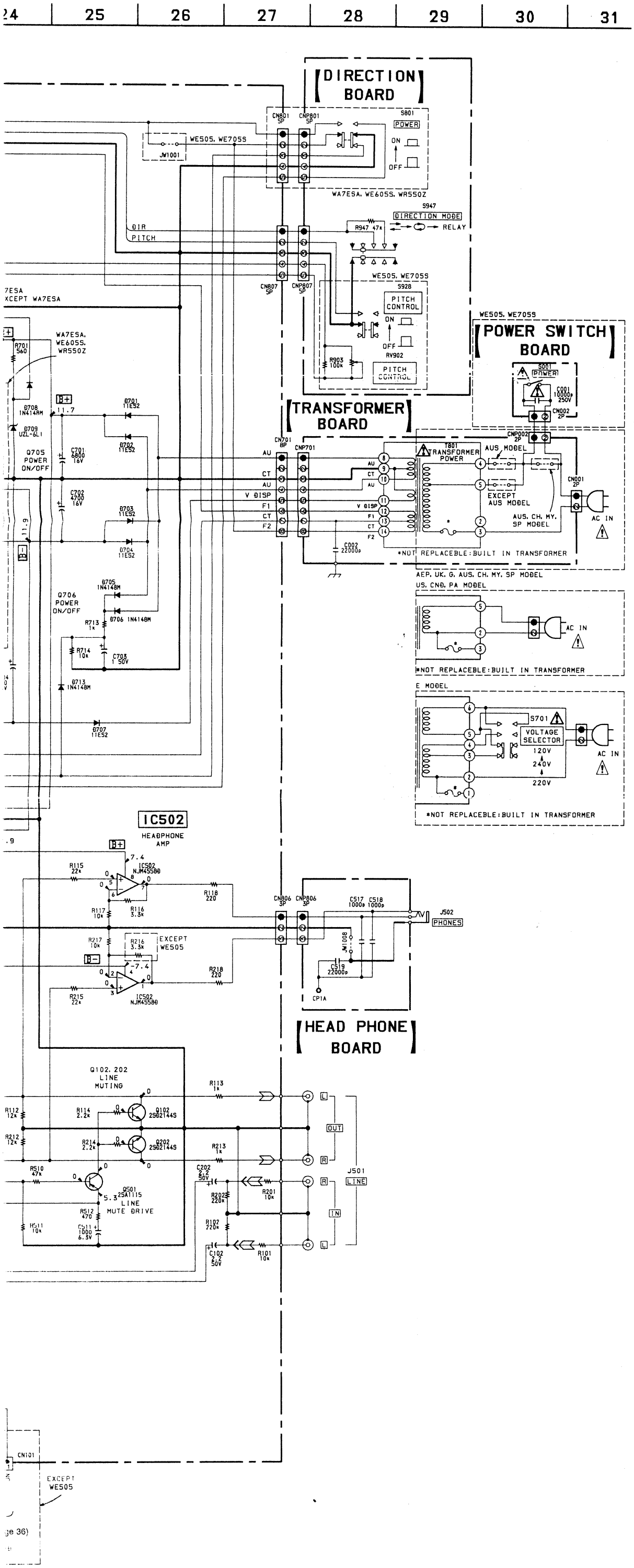
RV201 DOLBY LEVEL (R)

## IC804
BIAS CALIBRATION

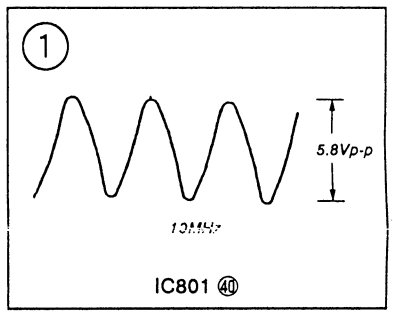
R853 27k, R854 27k, R855 27k, R856 27k — B.CAL0, B.CAL1, B.CAL2, B.CAL3

R849 10k, R850 10k, R851 10k, R852 10k


DIRECTION BOARD
CN801 5P
CNP801 5P
S801
POWER
ON
OFF
WA7ESA, WE605S, WR550Z
WE505, WE705S
JW1001
S947
DIRECTION MODE
R947 47k
RELAY
DIR
PITCH
CN807 5P
CNP807 5P
S928
PITCH CONTROL
R903 100k
RV902
TRANSFORMER BOARD
CN701 8P
CNP701
T801 TRANSFORMER POWER
AU
CT
V 8ISP
F1
F2
C002 22000p
*NOT REPLACEBLE:BUIL
AEP, UK, G, AUS, CH,
US, CND, PA MODEL
E MODEL
*NOT REPLACEBLE:
*NOT REPLACEBL
WE705S, WE605S
Q801 2SC3399
Q803 2SC2603 BUFFER
D805 1N4148M
J801 CONTROL A
J802 CONTROL A
R826 10k
R825 10k
R827 4.7k
R828 10k
R829 10
C816 0.1
R862 100k
C801 100 10V
680:WA7ESA
1.5k:EXCEPT WA7ESA
WA7ESA, WE605S, WR550Z
Q701 2SB1375 REG
IC701 NJM45580
R722 0.33 1/4W FR
R721 4.7k
R701 560
R711 8.8k
R707 10k
R703 1.5k
R702 10k
R705 6.8k
R724 390
Q709 2SK246-GR
Q705 2SC3402
D708 1N4148M
D709 UZL-6L1
D710 UZL-6L1
R708 1.5k
R706 1.5k
C706 1000 10V
C705 4.7 50V
Q705 POWER ON/OFF
D701 11ES2
D702 11ES2
D703 11ES2
D704 11ES2
C701 4800 16V
C702 4700 16V
R710 1k
D711 UZL-6L1
R709 4.7k
R723 0.33 1/2W FR
Q702 2SB2012
R712 6.8k
C707 1000 10V
IC701 NJM45580
R720 0.22 1/4W FR
Q703 2SB1375 REG
R715 2.7k
C710 470 6.3V
Q704 2SC2603 REG
D712 UZL-6M3
C708 4.7 50V
Q706 2SC3402
Q706 POWER ON/OFF
D705 1N4148M
D706 1N4148M
R713 1k
R714 10k
C703 1 50V
D713 1N4148M
D715 1N4148M
R717 10k
R718 39k
D714 1N4148M
R716 22k
R719 12k
C711 47 35V
Q707 2SA1115 ON/OFF SWITCH
C704 220 50V
C709 4.7 50V
D716 UZL-7L2
Q708 2SB1116A REG
D707 11ES2
PW IN
PW OUT
Q802 2SC3901 POWER ON/OFF
R816 100k
C811 0.1 ET
IC502
HEADPHONE AMP
R115 22k
R116 3.3k
R117 10k
R118 220
R217 10k
R216 3.3k
EXCEPT WE505
R215 22k
R218 220
IC502 NJM45580
CN806 3P
CNP806 3P
C517 1000p
C518 1000p
J502 PHONES
JW1008
C519 22000p
CP1A
HEAD PHONE BOARD
PASS/MUTE/BOL
EQ H/L
REC/PB
VCC
D.VCC
DECK-AEQ 70/70/120
DECK-BEQ IV/III/I
DECK-A/B
METER1
METER2
MUTE
REC-LEVEL
BALANCE
D-GND
VEE
GP-CAL
REC CAL
OFF/B/C
CAL/OFF/S
REC MUTE
DOLBY B:2.1
DOLBY C:5.2
DOLBY S:0
DOLBY C:2.1
DOLBY S:0
70/120
R119 1k
R219 1k
I II IV
SEL A/B
R120 47k
C114 2.2 50V
C214 2.2 50V
R220 47k
C507 0.12
Q102, 202 LINE MUTING
Q102 2SD2144S
Q202 2SD2144S
R111 2.2k
R112 12k
R114 2.2k
R212 12k
R214 2.2k
R211 2.2k
R510 47k
Q501 2SA1115 LINE MUTE DRIVE
R512 470
C511 1000 6.3V
R511 10k
R113 1k
R213 1k
C202 2.2 50V
R202 220k
R201 10k
R102 220k
C102 2.2 50V
R101 10k
J501 LINE
OUT
IN
CN201
CN101
+7.5V
G
-7.5V
NR IN
ENCODE OUT
NC
EXCEPT WE505
(Page 36) J DOLBY-S BOARD (CN 1)
(Page 36) B DOLBY-S BOARD (CN 1)




## • WAVEFORM – MAIN SECTION –



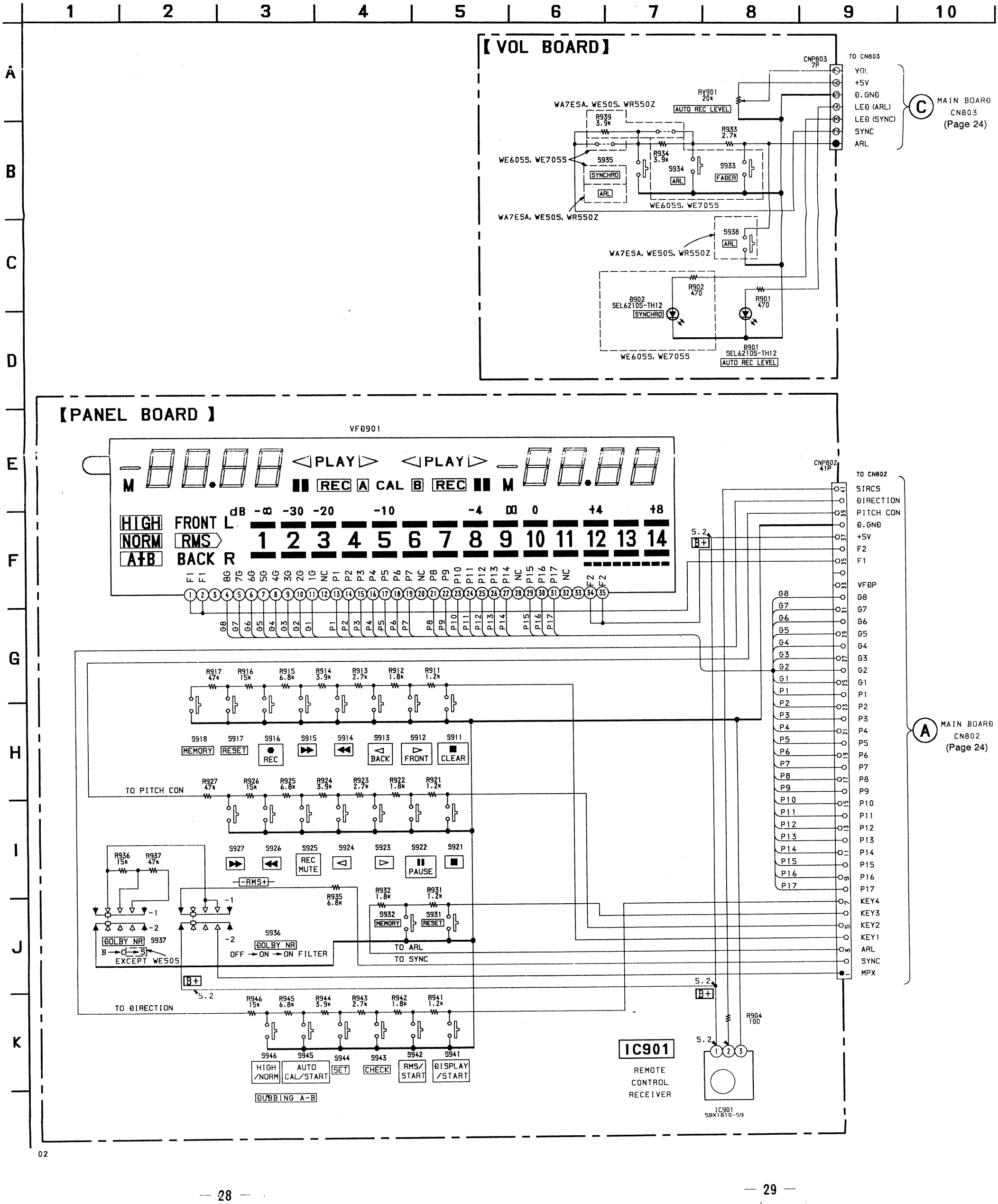

**Note :**

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- : fusible resistor.

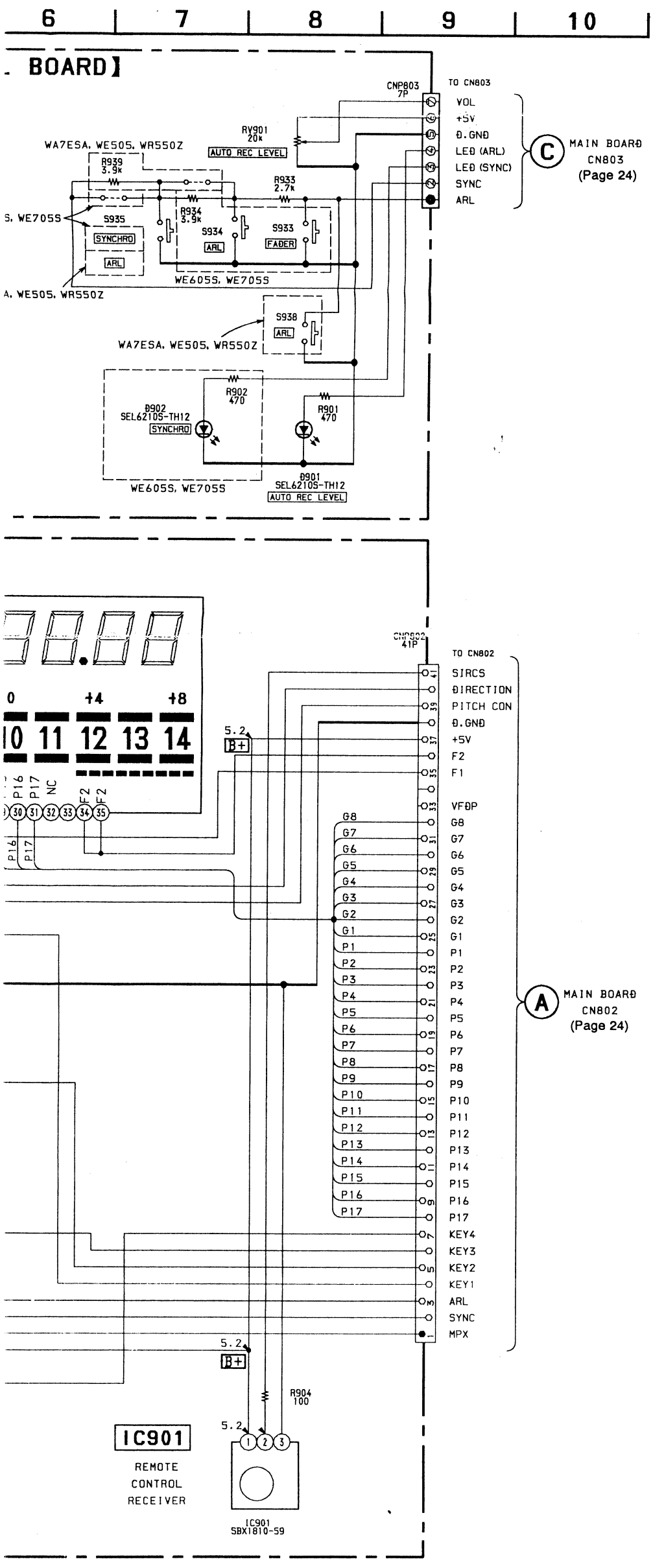
| Note : | Note : |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |

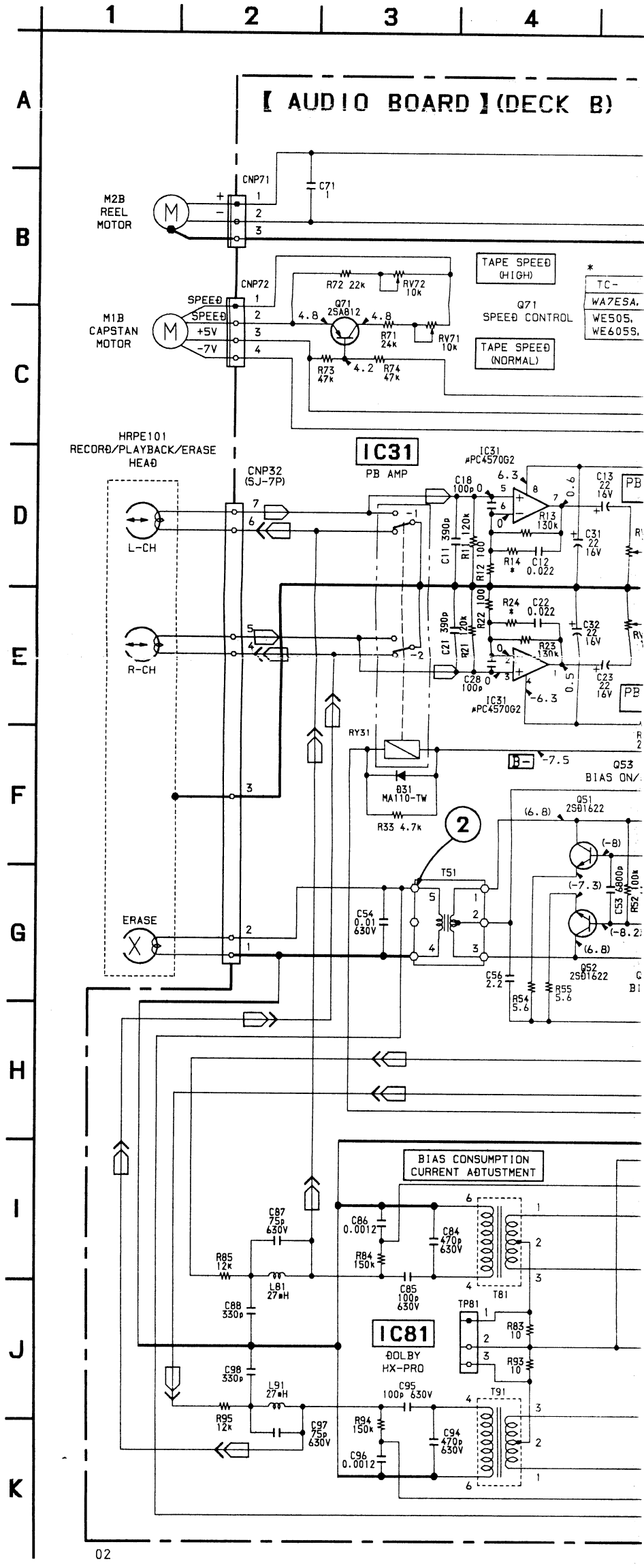
- B+ : B+ Line
- B – : B – Line
- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : STOP
  ( ) : REC
- Voltages are taken with a VOM ( Input impedance 10M Ω ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : PB ( DECK A )
  : PB ( DECK B )
  : REC ( DECK B )
- Abbreviation
  CND : Canadian
  G : German
  AUS : Australian
  CH : Chinese
  SP : Singapore
  MY : Malaysia
  PA : Panama

## 5-4. SCHEMATIC DIAGRAM (PANEL SECTION)




02


6
7
8
9
10
BOARD
CNP803
7P
TO CN803
VOL
+5V
GND
LED (ARL)
LED (SYNC)
SYNC
ARL
C
MAIN BOARD
CN803
(Page 24)
RV901
20k
AUTO REC LEVEL
WA7ESA, WE505, WR550Z
R939
3.9k
R933
2.7k
R934
3.9k
S935
SYNCHRO
ARL
S934
ARL
S933
FADER
WE605S, WE705S
S938
ARL
R902
470
D902
SEL6210S-TH12
SYNCHRO
R901
470
D901
SEL6210S-TH12
AUTO REC LEVEL
CNP802
41P
TO CN802
SIRCS
DIRECTION
PITCH CON
GND
+5V
F2
F1
VFDP
G8
G7
G6
G5
G4
G3
G2
G1
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
P12
P13
P14
P15
P16
P17
KEY4
KEY3
KEY2
KEY1
ARL
SYNC
MPX
A
MAIN BOARD
CN802
(Page 24)
5.2
B+
R904
100
IC901
REMOTE
CONTROL
RECEIVER
IC901
SBX1810-59


1
2
3
4
AUDIO BOARD (DECK B)
A
B
C
D
E
F
G
H
I
J
K
M2B
REEL
MOTOR
CNP71
C71
M1B
CAPSTAN
MOTOR
CNP72
SPEED
+5V
-7V
R72 22k
RV72
10k
Q71
2SA812
R71
24k
RV71
10k
R73
47k
R74
47k
TAPE SPEED
(HIGH)
TAPE SPEED
(NORMAL)
Q71
SPEED CONTROL
TC-
WA7ESA,
WE505,
WE605S,
HRPE101
RECORD/PLAYBACK/ERASE
HEAD
CNP32
(SJ-7P)
IC31
PB AMP
IC31
μPC4570G2
L-CH
R-CH
ERASE
C18
100p
C13
22
16V
C31
22
16V
C11
390p
R11
120k
R12
100
R14
C12
0.022
C22
0.022
C32
22
16V
C21
390p
R21
120k
R22
100
R24
R23
130k
C28
100p
C23
22
16V
-6.3
RY31
B-
-7.5
Q53
BIAS ON/
D31
MA110-TW
R33 4.7k
2
T51
C54
0.01
630V
Q51
2SB1622
(6.8)
(-8)
(-7.3)
(-8.2)
(6.8)
Q52
2SB1622
C56
2.2
R54
5.6
R55
5.6
BIAS CONSUMPTION
CURRENT ADJUSTMENT
C87
75p
630V
C86
0.0012
C84
470p
630V
R85
12k
R84
150k
L81
27mH
C85
100p
630V
T81
C88
330p
TP81
R83
10
R93
10
IC81
DOLBY
HX-PRO
C98
330p
L91
27mH
C95
100p 630V
T91
R95
12k
C97
75p
630V
R94
150k
C94
470p
630V
C96
0.0012
02

**Note :**

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- All resistors are in Ω and ¼W or less unless otherwise specified.
- B+ : B+ Line
- B − : B − Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : STOP
  ( ) : REC
- Voltages are taken with a VOM ( Input impedance 10M Ω ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : PB ( DECK A )
  : PB ( DECK B )
  : REC ( DECK B )

TION)

3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13

D10 BOARD ] (DECK B)

【 LEAF SW BOARD 】(DECK B)

【 AUDIO BOAR

IC82 ROTATION DET

IC81 ROTATION DET

IC31 PB AMP

Q71 SPEED CONTROL

Q53 BIAS ON/OFF

Q51, 52 BIAS OSC

IC81 DOLBY HX-PRO

BIAS CONSUMPTION CURRENT ADJUSTMENT

REC BIAS L-CH

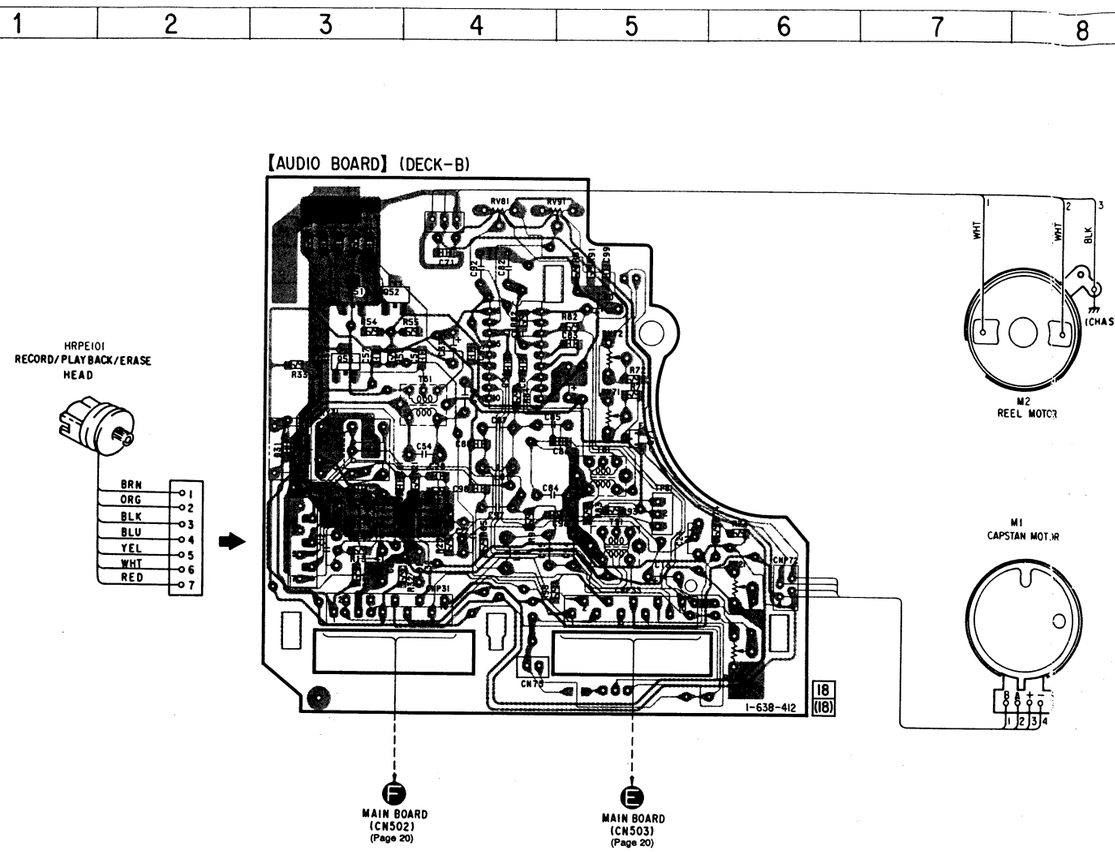
REC BIAS R-CH

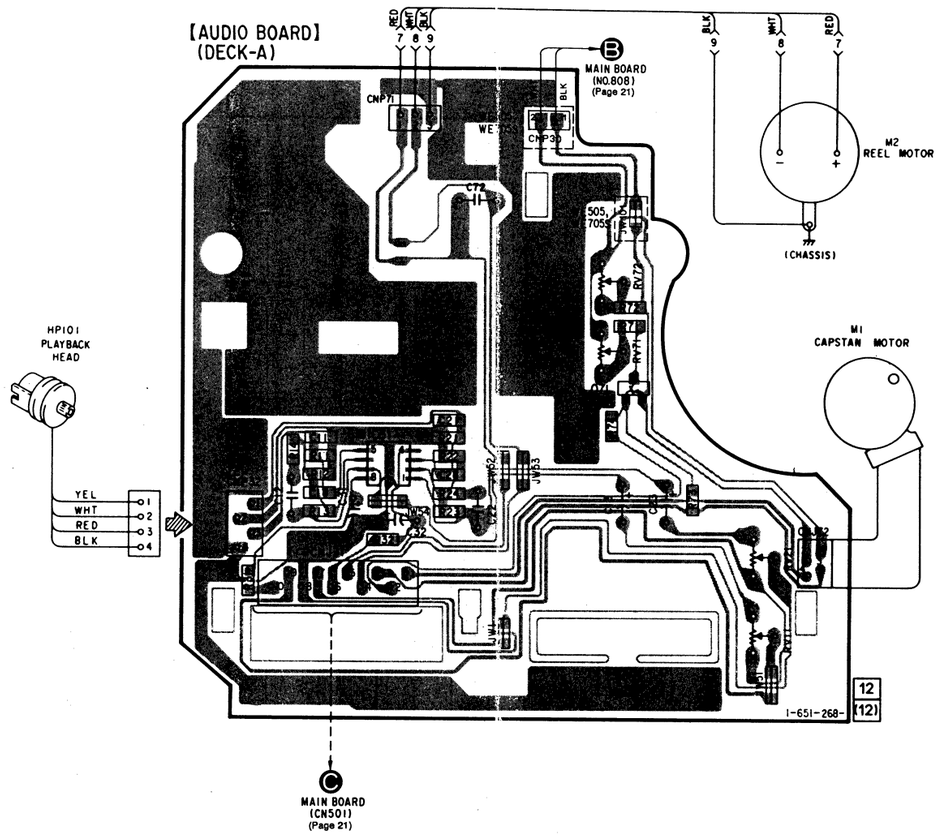
HP101 PLAYBACK HEAD

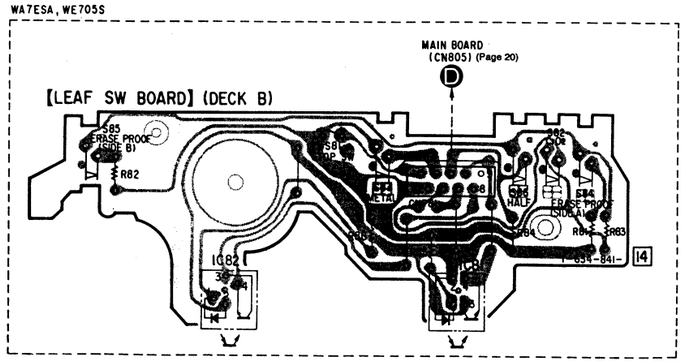
M2A REEL MOTOR

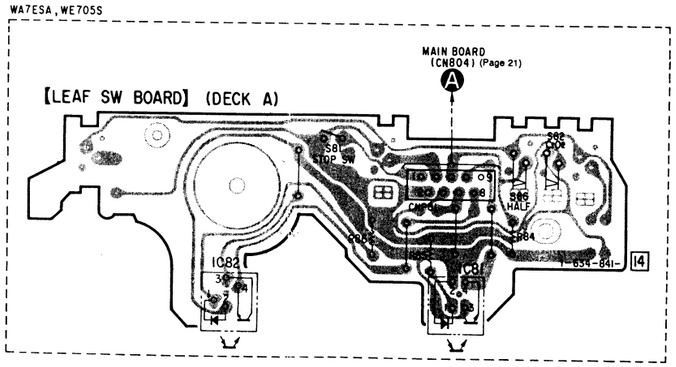
M1A CAPSTAN MOTOR

| * | |
|---|---|
| TC- | R14, 24 |
| WA7ESA, WE705S | 6.2K |
| WE505, WE605S, WR550Z | 6.8K |

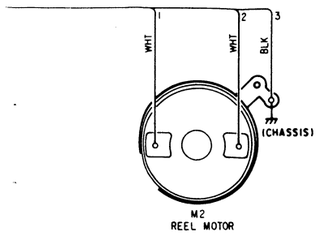

【AUDIO BOARD】 (DECK-B)
HRPE101
RECORD/PLAYBACK/ERASE HEAD
BRN 1
ORG 2
BLK 3
BLU 4
YEL 5
WHT 6
RED 7
WHT
WHT
BLK
(CHASSIS)
M2
REEL MOTOR
M1
CAPSTAN MOTOR
1-638-412
18
(18)
MAIN BOARD
(CN502)
(Page 20)
MAIN BOARD
(CN503)
(Page 20)

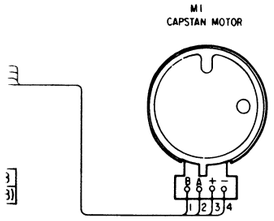

【AUDIO BOARD】
(DECK-A)
RED
WHT
BLK
MAIN BOARD
(NO.808)
(Page 21)
BLK
WHT
RED
M2
REEL MOTOR
(CHASSIS)
HP101
PLAYBACK
HEAD
YEL
WHT
RED
BLK
M1
CAPSTAN MOTOR
1-651-268-
12
(12)
MAIN BOARD
(CN501)
(Page 21)

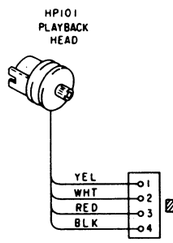

WA7ESA, WE705S
MAIN BOARD
(CN805) (Page 20)
【LEAF SW BOARD】 (DECK B)
S85
ERASE PROOF SIDE B
R82
S84
METAL
S86
HALF
ERASE PROOF SIDE A
R84
R83
IC82
IC81
1-634-841-
14

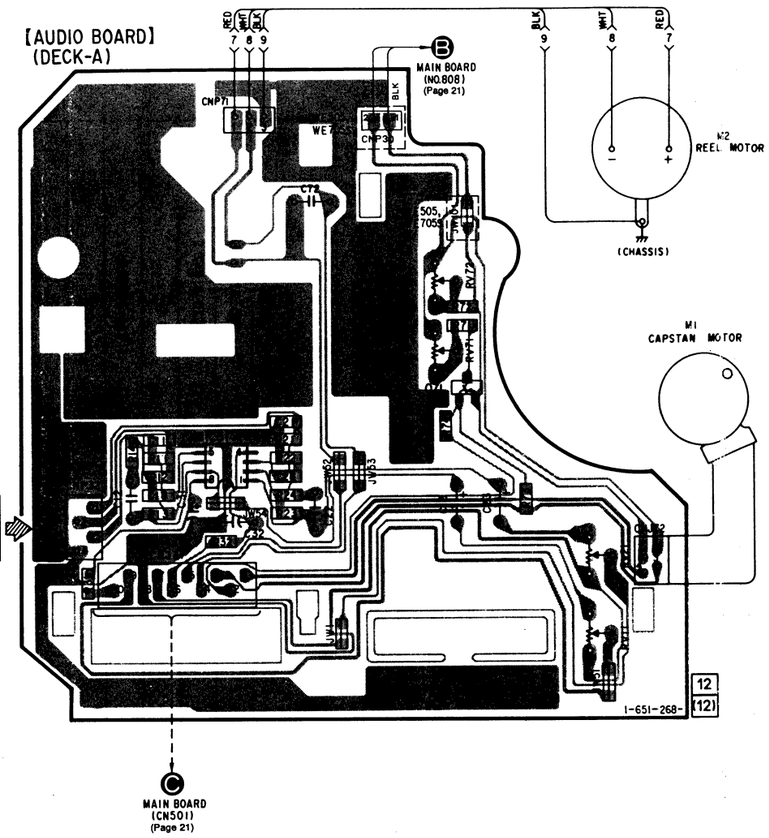

WA7ESA, WE705S
MAIN BOARD
(CN804) (Page 21)
【LEAF SW BOARD】 (DECK A)
S84
TOP
S86
HALF
IC82
IC81
1-634-841-
14

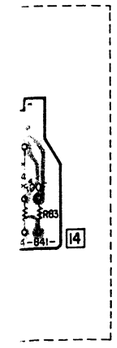
| 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

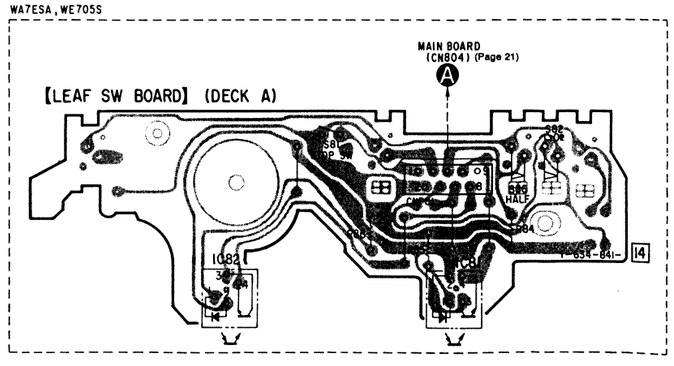


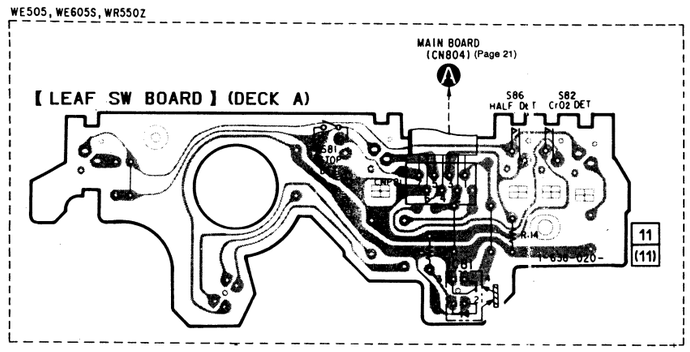



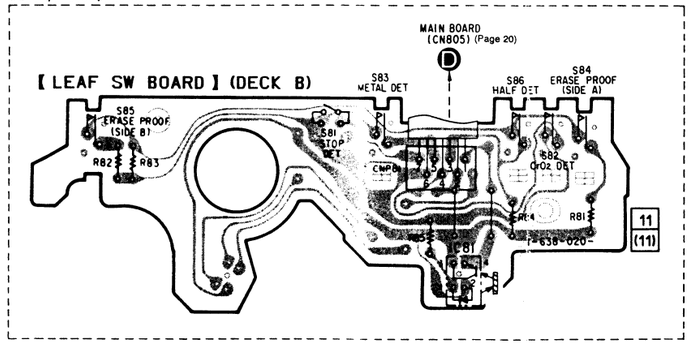




## • SEMICONDUCTOR LOCATION

(DECK-A)

| Ref. No. | Location |
|---|---|
| IC31 | D - 11 |
| IC81 (LEAF SW) | F - 18 |
| IC81 (LEAF SW) | I - 13 |
| IC82 (LEAF SW) | I - 12 |
| Q71 | C - 13 |

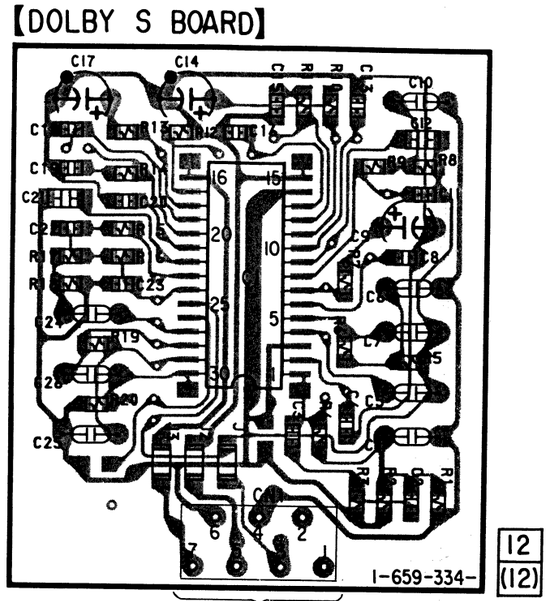
(DECK-B)

| Ref. No. | Location |
|---|---|
| D31 | C - 3 |
| IC31 | D - 4 |
| IC81 (AUDIO) | B - 4 |
| IC81 (LEAF SW) | I - 5 |
| IC81 (LEAF SW) | I - 18 |
| IC82 (LEAF SW) | I - 4 |
| Q51 | B - 3 |
| Q52 | B - 3 |
| Q53 | C - 3 |
| Q71 | C - 5 |

**Note:**

- ○— : parts extracted from the component side.
- ● : Through hole.
- ▒▒ : Pattern on the side which is seen.
- ▒▒ : Pattern of the rear side.

## 5-7. PRINTED WIRING BOARDS (DOLBY SECTION) (EXCEPT WE505)



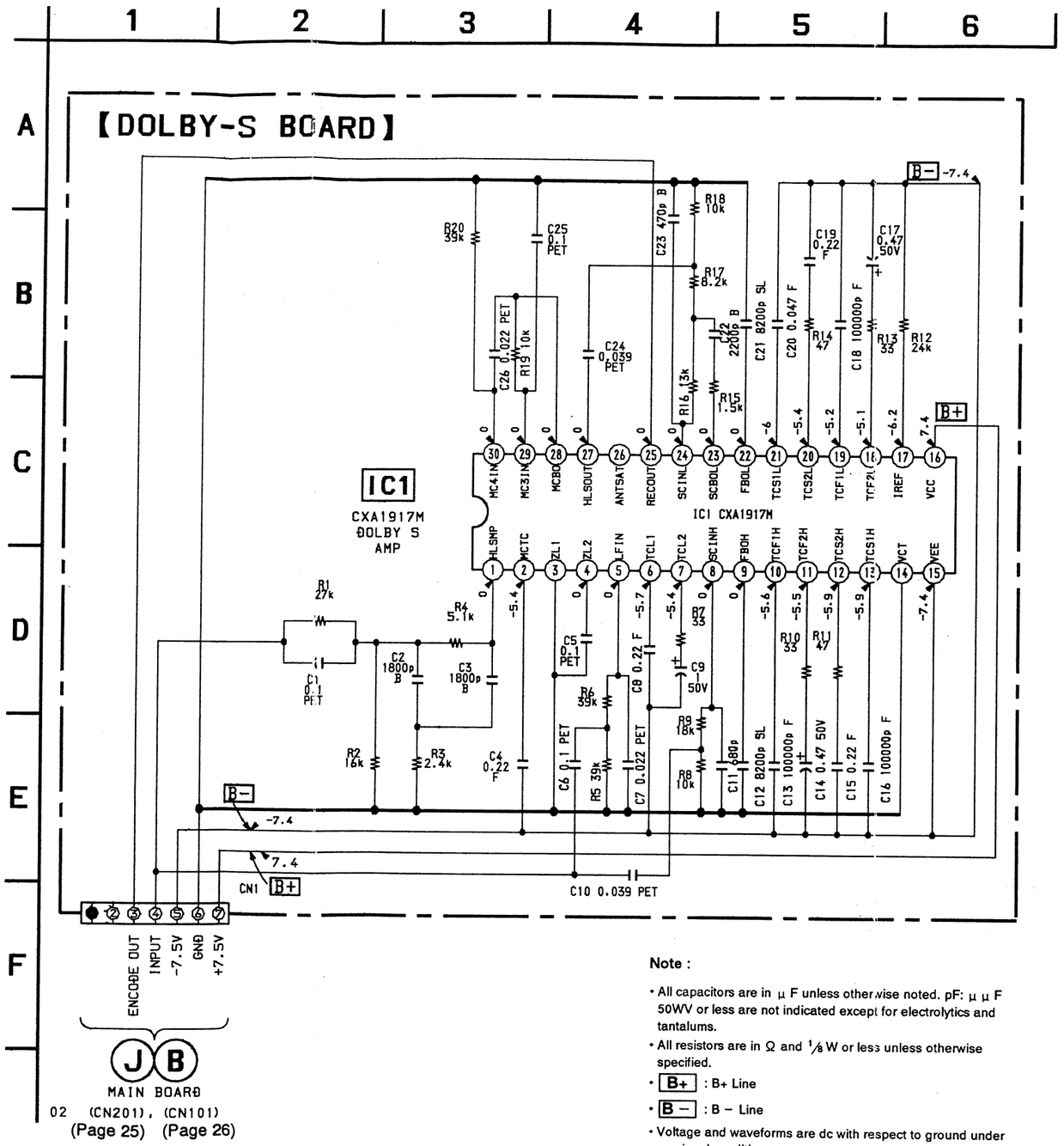

(Page 19) G , H (Page 19)

MAIN BOARD
CN101 , 201

**Note:**

- O— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.

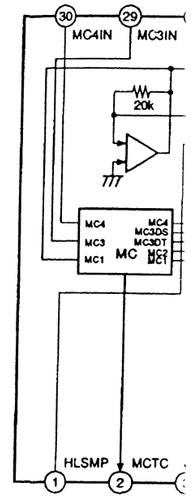
## 5-8. SCHEMATIC DIAGRAM (DOLBY SECTION) (EXCEPT WE505)



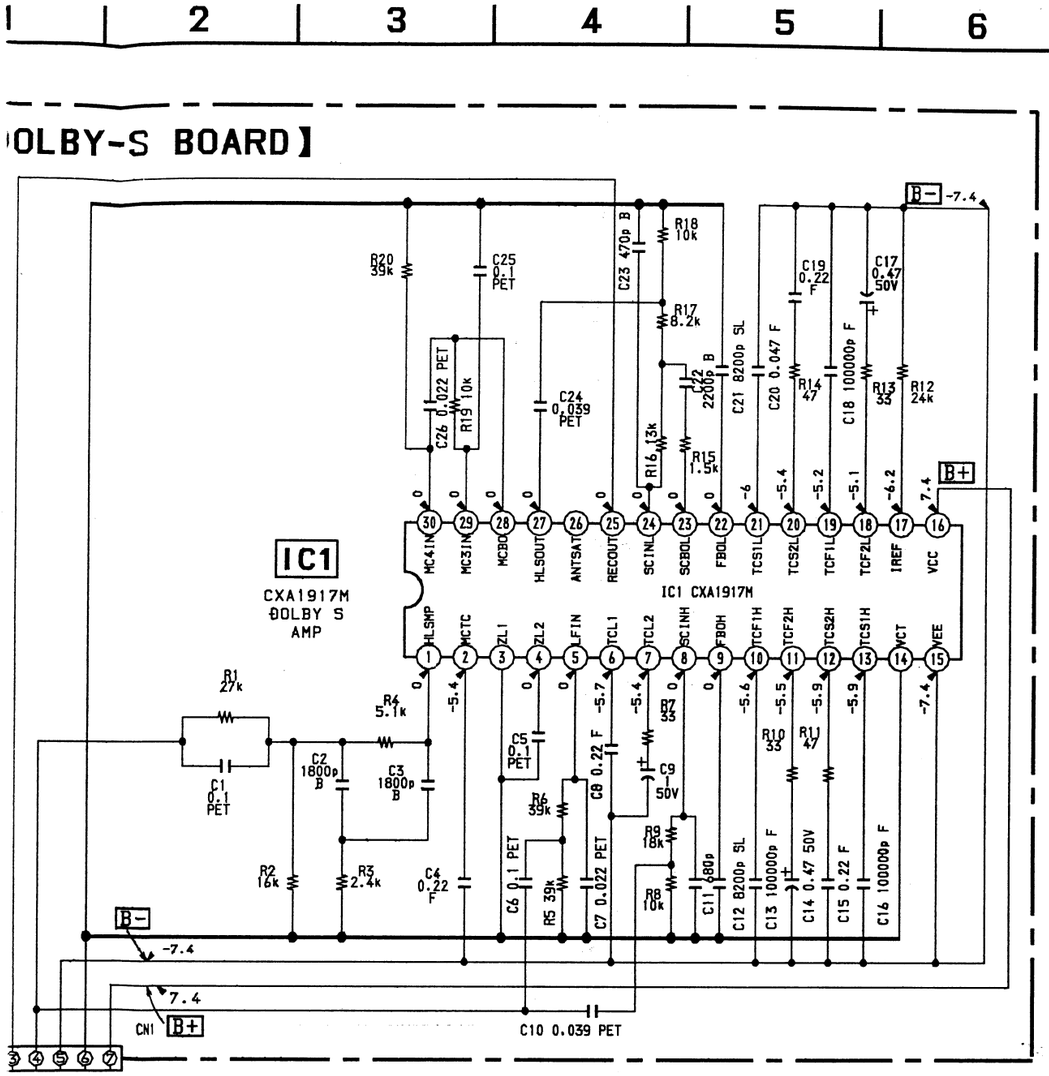

**Note :**

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/8 W or less unless otherwise specified.
- B+ : B+ Line
- B − : B − Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : STOP
- Voltages are taken with a VOM ( Input impedance 10M Ω ). Voltage variations may be noted due to normal production tolerances.
- Voltage variations may be noted due to normal production tolerances.

● IC BLOCK DIAGR
IC1 CXA1917M-T6



TIC DIAGRAM (DOLBY SECTION)
WE505)

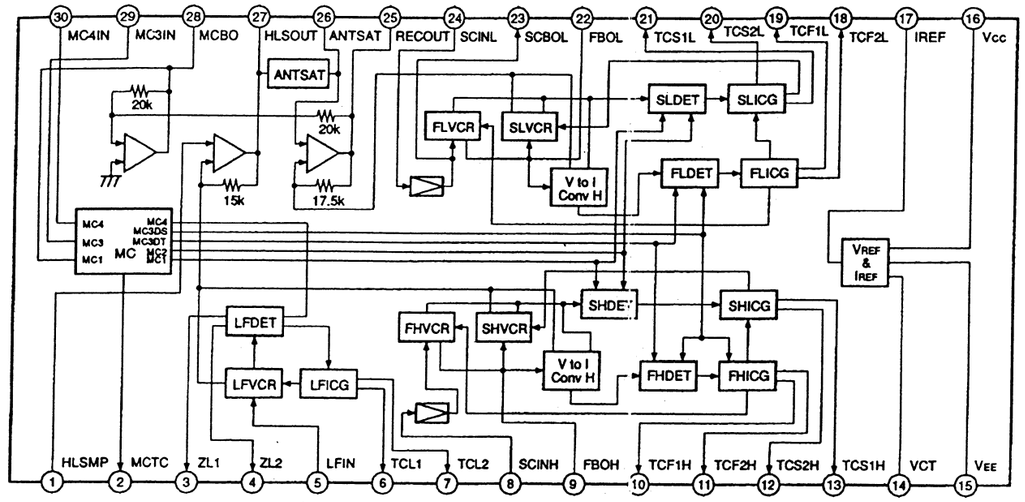



**Note :**

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/8 W or less unless otherwise specified.
- B+ : B+ Line
- B − : B − Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : STOP
- Voltages are taken with a VOM ( Input impedance 10M Ω ). Voltage variations may be noted due to normal production tolerances.
- Voltage variations may be noted due to normal production tolerances.



● IC BLOCK DIAGRAM
IC1 CXA1917M-T6



# SECTION 6
# EXPLODED VIEWS

**NOTE :**

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation

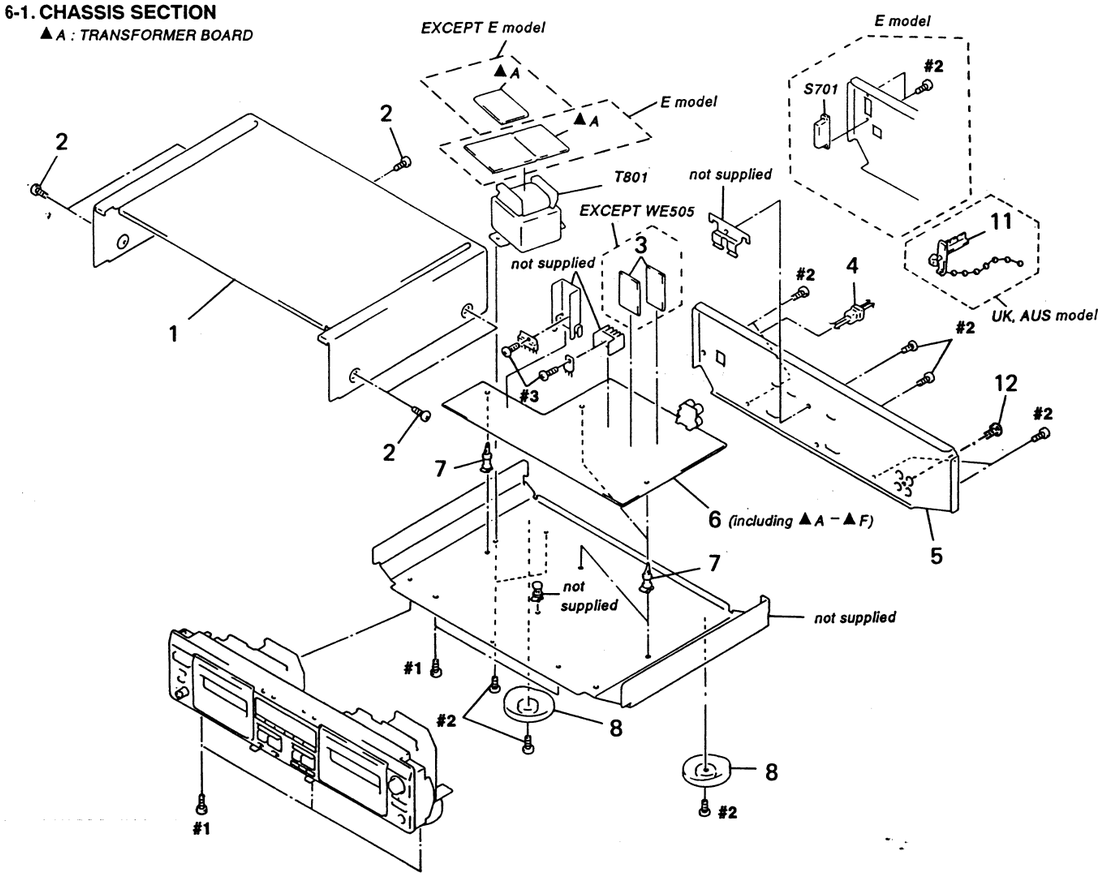
| | | | |
|---|---|---|---|
| CND | : Canadian | G | : German |
| AUS | : Australian | MY | : Malaysia |
| SP | : Singapore | CH | : Chinese |
| PA | : Panama | | |

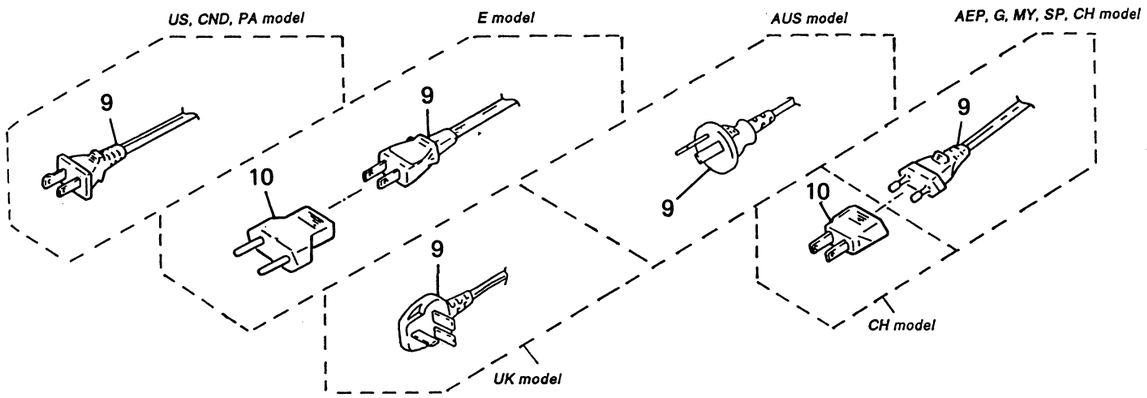
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

## 6-1. CHASSIS SECTION

▲A : TRANSFORMER BOARD



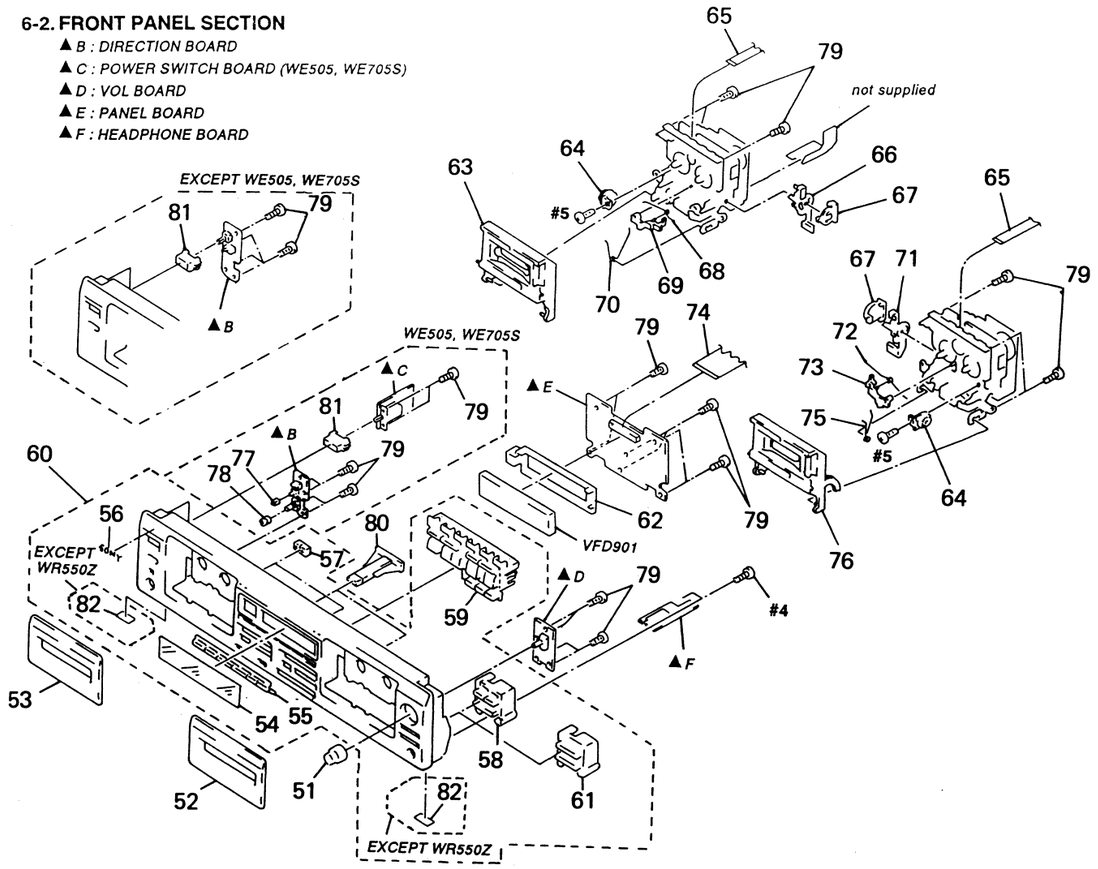






| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| * 1 | 3-931-432-01 | CASE (410726) (WA7ESA,WE605S,WR550Z) | |
| * 1 | 4-943-088-41 | CASE (WE505,WE705S) | |
| 2 | 3-363-099-01 | SCREW (CASE 3 TP2)(WE505,WE705S) | |
| 2 | 3-704-366-01 | SCREW (CASE) (M3X8) (WA7ESA,WE605S, WR550Z) | |
| * 3 | A-2007-481-A | DOLBY-S BOARD, COMPLETE (EXCEPT WE505) | |
| * 4 | 3-703-244-11 | BUSHING (2104), CORD (AEP,UK,G,AUS, MY,SP, CH,) | |
| 4 | 3-703-571-11 | BUSHING (S) (4516), CORD (US,CND,E,PA) | |
| * 5 | 3-920-372-21 | PANEL, BACK (WE505:UK) | |
| * 5 | 3-931-244-01 | PANEL, BACK (WE605S:US,PA) | |
| * 5 | 3-931-244-11 | PANEL, BACK (WE605S:CND) | |
| * 5 | 3-931-244-21 | PANEL, BACK (WE605S:E) | |
| * 5 | 3-931-244-31 | PANEL, BACK (WE605S:AUS) | |
| * 5 | 3-931-244-41 | PANEL, BACK (WE605S:MY,SP,CH) | |
| * 5 | 3-931-245-01 | PANEL, BACK (WE505:AEP,G) | |
| * 5 | 3-931-245-21 | PANEL, BACK (WR550Z) | |
| * 5 | 3-931-246-01 | PANEL, BACK (WE705S) | |
| * 5 | 3-932-543-01 | PANEL, BACK (WA7ESA:US) | |
| * 5 | 3-932-543-11 | PANEL, BACK (WA7ESA:CND) | |
| * 6 | A-2007-491-A | MAIN BOARD, COMPLETE (WE605S:US,CND, PA) | |
| * 6 | A-2007-492-A | MAIN BOARD, COMPLETE (WE605S:E) | |
| * 6 | A-2007-493-A | MAIN BOARD, COMPLETE (WE605S:AUS) | |
| * 6 | A-2007-494-A | MAIN BOARD, COMPLETE (WE505) | |
| * 6 | A-2007-495-A | MAIN BOARD, COMPLETE (WE705S) | |
| * 6 | A-2007-513-A | MAIN BOARD, COMPLETE (WA7ESA) | |
| * 6 | A-2007-547-A | MAIN BOARD, COMPLETE (WR550Z) | |
| * 6 | A-2007-576-A | MAIN BOARD, COMPLETE (WE605S:MY,SP,CH) | |
| * 7 | 3-346-265-31 | HOLDER, PC BOARD | |
| 8 | X-3371-435-1 | FOOT ASSY (F50150S) (AEP,UK,G,E,AUS,MY,SP, CH) | |
| 8 | X-3371-436-1 | FOOT ASSY (F50145S) (US,CND,PA) | |
| ⚠ 9 | 1-551-188-99 | CORD, POWER (E) | |
| ⚠ 9 | 1-558-945-21 | CORD, POWER (POLAR.SPT-1) (US,CND,PA) | |
| ⚠ 9 | 1-575-651-21 | CORD, POWER (AEP,G,MY,SP,CH) | |
| ⚠ 9 | 1-696-586-11 | CORD, POWER (UK) | |
| ⚠ 9 | 1-696-845-11 | CORD, POWER (AUS) | |
| ⚠ 10 | 1-569-007-11 | ADAPTER, CONVERSION 2P (E) | |
| ⚠ 10 | 1-569-008-21 | ADAPTER, CONVERSION 2P (CH) | |
| 11 | 4-956-370-12 | BAND, PLUG FIXED (UK,AUS) | |
| 12 | 3-704-515-01 | SCREW (BV,RING) (WE505,WE705S) | |
| ⚠ S701 | 1-692-155-11 | SELECTOR, POWER•VOLTAGE (VOLTAGE SELECTOR) (E) | |
| ⚠ T801 | 1-427-782-11 | TRANSFORMER, POWER (US,CND,PA) | |
| ⚠ T801 | 1-427-783-11 | TRANSFORMER, POWER (AEP,UK,G,AUS,MY,SP, CH) | |
| ⚠ T801 | 1-427-784-11 | TRANSFORMER, POWER (E) | |

## 6-2. FRONT PANEL SECTION

▲B : DIRECTION BOARD
▲C : POWER SWITCH BOARD (WE505, WE705S)
▲D : VOL BOARD
▲E : PANEL BOARD
▲F : HEADPHONE BOARD



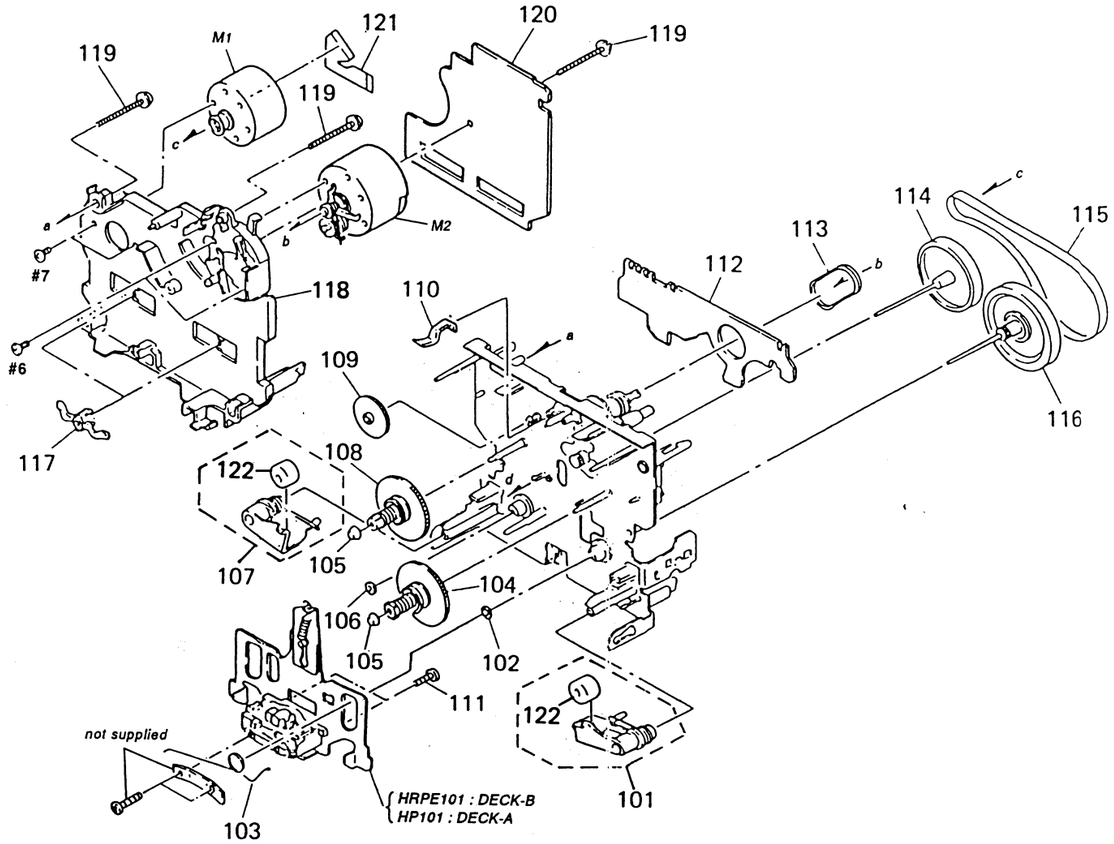

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 51 | 3-909-661-21 | KNOB (REC) (WE505,WE705S) | |
| 51 | 3-931-430-11 | KNOB (REC) (WA7ESA,WE605S,WR550Z) | |
| 52 | X-3371-367-1 | LID (HF) ASSY (B), CASSETTE | (EXCEPT WA7ESA) |
| 52 | X-3371-572-1 | LID (ES) ASSY (B), CASSETTE (WA7ESA) | |
| 53 | X-3371-366-1 | LID (HF) ASSY (A), CASSETTE | (EXCEPT WA7ESA) |
| 53 | X-3371-571-1 | LID (ES) ASSY (A), CASSETTE (WA7ESA) | |
| 54 | 3-931-248-01 | WINDOW (M) (EXCEPT WA7ESA:CND) | |
| 54 | 3-931-248-31 | WINDOW (M) (WA7ESA:CND) | |
| 55 | 3-931-237-01 | BUTTON (RMS-6) | |
| 56 | 4-963-404-21 | EMBLEM (5-A), SONY | |
| 57 | 3-931-243-01 | BUTTON (COUNTER) | |
| 58 | X-3371-370-1 | BUTTON (SYNCHRO) ASSY (WE705S,WE605S) | |
| 59 | 3-931-239-01 | BUTTON (SR) | |
| 60 | X-3371-355-1 | PANEL (HF) ASSY, FRONT (WE605S:US,CND,PA) | |
| 60 | X-3371-356-1 | PANEL (HF) ASSY, FRONT (WE605S:E,AUS,MY,SP,CH) | |
| 60 | X-3371-357-1 | PANEL ASSY, FRONT (WR550Z) | |
| 60 | X-3371-358-1 | PANEL ASSY, FRONT (WE505) | |
| 60 | X-3371-361-1 | PANEL ASSY, FRONT (WE705S) | |
| 60 | X-3371-567-1 | PANEL (ES) ASSY, FRONT (WA7ESA:US) | |
| 60 | X-3371-568-1 | PANEL (ES) ASSY, FRONT (WA7ESA:CND) | |
| 61 | 3-931-242-01 | BUTTON (ARL) (WA7ESA,WE505,WR550Z) | |
| * 62 | 3-377-337-11 | HOLDER (FL) | |
| 63 | X-4945-947-1 | HOLDER (L) ASSY, CASSETTE | |
| 64 | 3-354-963-01 | DAMPER | |
| 65 | 1-769-882-11 | WIRE (FLAT TYPE) (7 CORE) (WE505,WE605S,WR550Z) | |
| 65 | 1-769-912-11 | WIRE (FLAT TYPE) (9 CORE) (WA7ESA,WE705S) | |
| * 66 | 3-354-953-01 | LEVER (LOCK LEVER L) | |
| 67 | 3-354-957-01 | JOINT (LOCK LEVER) | |
| 68 | 3-354-961-01 | SPRING (EJ SAFTY SPRING L) | |
| 69 | 3-354-955-01 | LEVER (EJ SAFTY LEVER L) | |
| 70 | 4-959-231-11 | SPRING (L), TORSION | |
| * 71 | 3-354-954-01 | LEVER (LOCK LEVER R) | |
| 72 | 3-354-962-01 | SPRING (EJ SAFTY SPRING R) | |
| 73 | 3-354-956-01 | LEVER (EJ SAFTY LEVER R) | |
| 74 | 1-769-598-11 | WIRE (FLAT TYPE) (41 CORE) | |
| 75 | 4-959-232-11 | SPRING (R), TORSION | |
| 76 | X-4945-946-1 | HOLDER (R) ASSY, CASSETTE | |
| 77 | 3-380-952-21 | BUTTON (5X5) | |
| 78 | 3-931-378-01 | KNOB (F10) (WE505,WE705S) | |
| 79 | 4-951-620-01 | SCREW (2.6X8), +BVTP | |
| 80 | 3-377-328-11 | BUTTON (EJECT) (WE505,WE705S) | |
| 80 | 3-931-427-11 | BUTTON (EJ) (WA7ESA,WE605S,WR550Z) | |
| 81 | 3-354-932-01 | BUTTON (POWER) (WE505,WE705S) | |
| 81 | 3-931-429-01 | BUTTON (POWER) (WE605S,WR550Z) | |
| 81 | 4-922-921-31 | BUTTON (POWER) (WA7ESA) | |
| 82 | 4-977-358-01 | CUSHION (8X12.5) (EXCEPT WR550Z) | |
| VFD901 | 1-517-263-11 | INDICATOR TUBE, FLUORESCENT | |



## 6-3. MECHANISM SECTION 1

DECK-A
- TC-WE605S/WR550Z : TCM-190RA12CL
- TC-WE505 : TCM-190RA14CL
- TC-WA7ESA : TCM-190RA17CL
- TC-WE705S : TCM-190RA18C

DECK-B
- TC-WA7ESA/WE705S : TCM-190RB11C
- TC-WE505/WE605S/WR550Z : TCM-190RB12CL

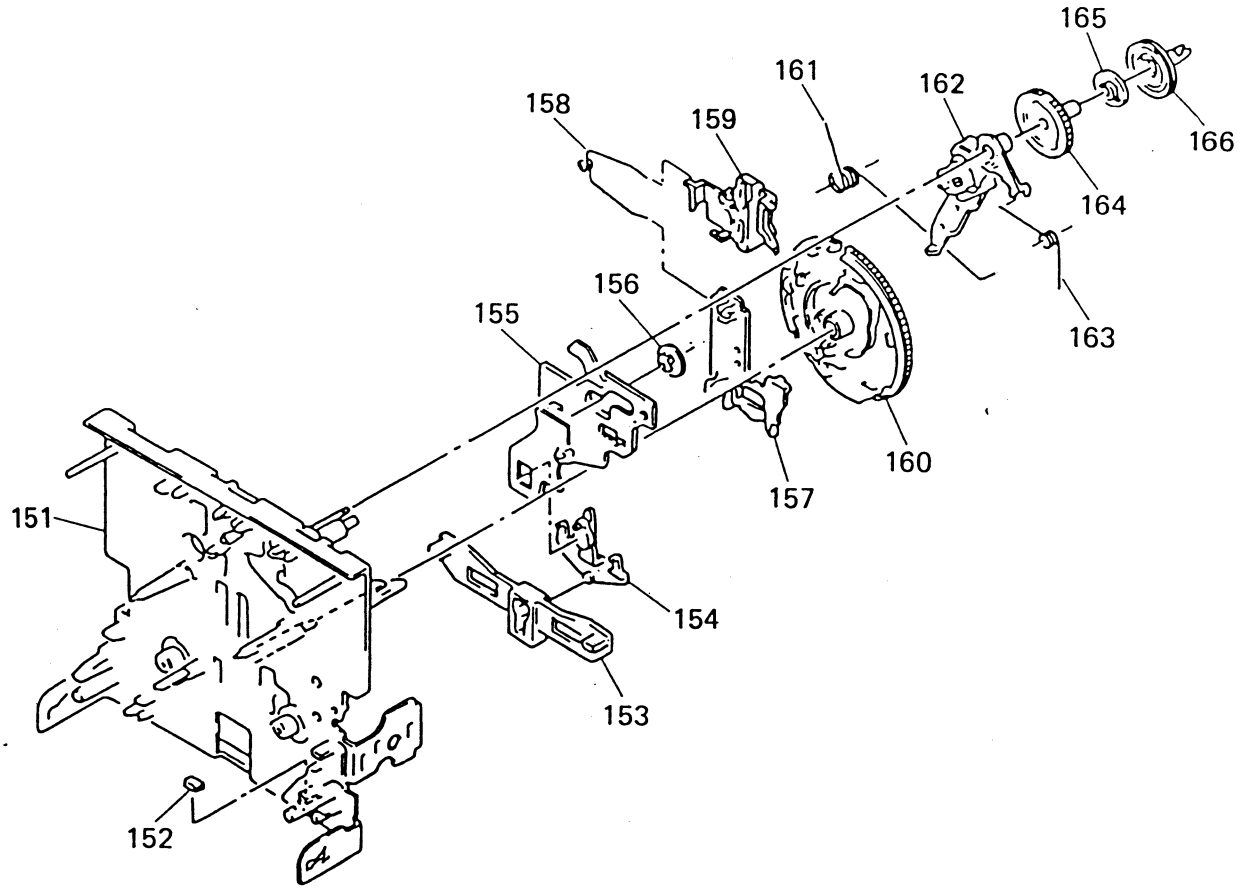



| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 101 | X-3366-047-1 | LEVER (PINCH F) ASSY | |
| 102 | 3-356-713-01 | WASHER | |
| 103 | 3-907-362-01 | SPRING, TORSION | |
| 104 | X-3366-970-1 | TABLE ASSY, REEL (WE505,WE605S,WR550Z) | |
| 104 | X-3366-971-1 | TABLE ASSY, REEL (WA7ESA,WE705S) | |
| 105 | 3-362-308-01 | CAP (REEL) | |
| 106 | 3-356-714-01 | WASHER | |
| 107 | X-3366-048-1 | LEVER (PINCH R) ASSY | |
| 108 | X-3366-971-1 | TABLE ASSY (B), REEL | |
| 109 | 3-359-424-01 | GEAR (REV GEAR) | |
| 110 | 3-359-430-01 | SPRING (CASSETTE RETAINER),LEAF | |
| 111 | 3-388-848-01 | SCREW (P2X6) (B TIGHT) | |
| * 112 | 1-634-841-14 | LEAF SW BOARD (DECK A) (WA7ESA,WE705S) | |
| * 112 | 1-638-020-11 | LEAF SW BOARD (DECK A) (WE505,WE605S, WR550Z) | |
| * 112 | 1-634-841-14 | LEAF SW BOARD (DECK B) (WA7ESA,WE705S) | |
| * 112 | 1-638-020-11 | LEAF SW BOARD (DECK B) (WE505,WE605S, WR550Z) | |
| 113 | 3-359-466-01 | BELT (FR), SQUARE | |
| 114 | X-3367-630-1 | FLYWHEEL (REV) ASSY | |
| 115 | 3-359-417-01 | BELT (FLAT), CAPSTAN | |
| 116 | X-3367-629-1 | FLYWHEEL (FWD) ASSY | |
| 117 | 3-575-321-00 | RETAINER, THRUST, CAPSTAN | |
| 118 | 3-359-436-11 | BASE (THRUST RETAINER),FITTING | |
| 119 | 3-359-414-01 | SCREW (+PTPWH 2X23) | |
| * 120 | A-2007-040-A | AUDIO BOARD, COMPLETE (DECK B) | |
| * 120 | A-2007-266-A | AUDIO BOARD, COMPLETE (DECK A) (WE605S, WR550Z) | |
| * 120 | A-2007-339-A | AUDIO BOARD, COMPLETE (DECK A) (WE505) | |
| * 120 | A-2007-479-A | AUDIO BOARD, COMPLETE (DECK A) (WA7ESA) | |
| * 120 | A-2007-480-A | AUDIO BOARD, COMPLETE (DECK A) (WE705S) | |
| 121 | 1-638-983-11 | MOTOR FLEXIBLE BOARD | |
| 122 | 3-355-808-02 | PINCH ROLLER | |
| HP101 | A-2004-526-A | DECK ASSY, HEAD (PLAYBACK) (WE505, WE605S,WR550Z) | |
| HP101 | A-2004-548-A | DECK ASSY, HEAD (PLAYBACK) (WA7ESA, WE705S) | |
| HRPE101 | A-2004-527-A | DECK ASSY, HEAD (RECORD / PLAYBACK / ERASE) | |
| M1 | X-3365-377-2 | MOTOR ASSY (CAPSTAN) | |
| M2 | X-3365-501-2 | MOTOR ASSY (REEL) | |

## 6-4. MECHANISM SECTION 2

DECK-A
- TC-WE605S/WR550Z : TCM-190RA12CL
- TC-WE505 : TCM-190RA14CL
- TC-WA7ESA : TCM-190RA17CL
- TC-WE705S : TCM-190RA18C

DECK-B
- TC-WA7ESA/WE705S : TCM-190RB11C
- TC-WE505/WE605S/WR550Z : TCM-190RB12CL




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 151 | X-3359-415-1 | CHASSIS ASSY MECHANICAL | |
| 152 | 3-359-469-01 | SPACER | |
| 153 | 3-359-425-01 | SLIDER (REVERSE SLIDER) | |
| 154 | 3-359-426-01 | LEVER (REVERSE LEVER) | |
| * 155 | 3-359-415-01 | SLIDER (TRIGGER SLIDER) | |
| 156 | 3-359-448-01 | GEAR (TRIGGER) | |
| 157 | 3-359-427-01 | SLIDER (LEVERSE SLIDER) | |
| 158 | 3-359-454-01 | SPRING, TORSION | |
| 159 | 3-359-429-01 | SLIDER (BRAKE PLATE) | |
| * 160 | 3-936-483-01 | GEAR (CAM GEAR) | |
| 161 | 3-359-456-01 | SPRING(TRIGGER SPRING),TORSION | |
| 162 | X-3366-569-1 | ARM ASSY, FR | |
| 163 | 3-924-185-11 | SPRING (FR ARM), TORSION | |
| 164 | 3-359-419-11 | GEAR (FR GEAR) | |
| 165 | 3-359-421-01 | CLUTCH (REEL DISK) | |
| 166 | 3-359-418-01 | PULLEY (FR PULLEY) | |

# SECTION 7
# ELECTRICAL PARTS LIST

## AUDIO (DECK A)

**NOTE :**

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE :Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μ A.... , uPA.... : μ PA....
  uPB.... : μ PB.... , uPC.... : μ PC....
  uPD.... : μ PD....
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H
- Abbreviation
  CND : Canadian
  AUS : Australian
  SP : Singapore
  PA : Panama
  G : German
  MY : Malaysia
  CH : Chinese

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| * | A-2007-266-A | AUDIO BOARD, COMPLETE (DECK A) | | | | (WE605S, WR550Z) |
| * | A-2007-339-A | AUDIO BOARD, COMPLETE (DECK A) | | | | (WE505) |
| * | A-2007-479-A | AUDIO BOARD, COMPLETE (DECK A) | | | | (WA7ESA) |
| * | A-2007-480-A | AUDIO BOARD, COMPLETE (DECK A) | | | | (WE705S) |
| | | ********** | | | | |
| | | < CAPACITOR > | | | | |
| C11 | 1-163-131-00 | CERAMIC CHIP | 390PF | 5% | 50V | |
| C12 | 1-136-157-00 | FILM | 0.022uF | 5% | 50V | |
| C13 | 1-124-234-00 | ELECT | 22uF | 20% | 16V | |
| C18 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C21 | 1-163-131-00 | CERAMIC CHIP | 390PF | 5% | 50V | |
| C22 | 1-136-157-00 | FILM | 0.022uF | 5% | 50V | |
| C23 | 1-124-234-00 | ELECT | 22uF | 20% | 16V | |
| C28 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C31 | 1-124-234-00 | ELECT | 22uF | 20% | 16V | |
| C32 | 1-124-234-00 | ELECT | 22uF | 20% | 16V | |
| C72 | 1-109-889-11 | ELECT | 1uF | 20% | 50V | |
| | | < CONNECTOR > | | | | |
| * CNJ31 | 1-580-782-11 | CONNECTOR, BOARD TO BOARD | | | | |
| CNJ72 | 1-764-902-11 | CONNECTOR, FFC/FPC 4P | | | | |
| * CNP30 | 1-564-718-11 | PIN, CONNECTOR (SMALL TYPE) 2P | | | | (WE505, WE705S) |
| * CNP32 | 1-580-772-11 | PIN, CONNECTOR (PC BOARD) 4P | | | | |
| * CNP71 | 1-564-719-11 | PIN, CONNECTOR (SMALL TYPE) 3P | | | | |
| | | < IC > | | | | |
| IC31 | 8-759-106-02 | IC uPC4570G2 | | | | |
| | | < JUMPER RESISTOR > | | | | |
| JW1 | 1-216-295-00 | METAL CHIP | 0 | 5% | 1/10W | |
| JW51 | 1-216-296-00 | METAL CHIP | 0 | 5% | 1/8W | |
| JW52 | 1-216-296-00 | METAL CHIP | 0 | 5% | 1/8W | |
| JW53 | 1-216-296-00 | METAL CHIP | 0 | 5% | 1/8W | |
| JW54 | 1-216-296-00 | METAL CHIP | 0 | 5% | 1/8W | |
| JW101 | 1-216-295-00 | METAL CHIP | 0 | 5% | 1/10W | (WE505,WE705S) |
| | | < TRANSISTOR > | | | | |
| Q71 | 8-729-216-22 | TRANSISTOR | 2SA1162-G | | | |
| | | < RESISTOR > | | | | |
| R11 | 1-216-099-00 | METAL CHIP | 120K | 5% | 1/10W | |
| R12 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W | |
| R13 | 1-216-100-00 | METAL GLAZE | 130K | 5% | 1/10W | |
| R14 | 1-216-069-00 | METAL CHIP | 6.8K | 5% | 1/10W | (WA7ESA,WE705S) |
| R14 | 1-216-068-00 | METAL CHIP | 6.2K | 5% | 1/10W | (WE505,WE605S,WR550Z) |
| R21 | 1-216-099-00 | METAL CHIP | 120K | 5% | 1/10W | |
| R22 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W | |
| R23 | 1-216-100-00 | METAL GLAZE | 130K | 5% | 1/10W | |
| R24 | 1-216-069-00 | METAL CHIP | 6.8K | 5% | 1/10W | (WA7ESA,WE705S) |
| R24 | 1-216-068-00 | METAL CHIP | 6.2K | 5% | 1/10W | (WE505,WE605S,WR550Z) |
| R31 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W | |
| R32 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W | |
| R71 | 1-216-082-00 | METAL GLAZE | 24K | 5% | 1/10W | |
| R72 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W | |
| R73 | 1-216-089-91 | METAL GLAZE | 47K | 5% | 1/10W | |
| R74 | 1-216-089-91 | METAL GLAZE | 47K | 5% | 1/10W | |
| | | < VARIABLE RESISTOR > | | | | |
| RV11 | 1-241-761-11 | RES, ADJ, CARBON 1K | | | | (PB LEVEL L) |
| RV21 | 1-241-761-11 | RES, ADJ, CARBON 1K | | | | (PB LEVEL R) |
| RV71 | 1-241-630-11 | RES, ADJ, CARBON 10K | | | | (TAPE SPEED(NORMAL)) |
| RV72 | 1-241-630-11 | RES, ADJ, CARBON 10K | | | | (TAPE SPEED(HIGH)) |
| | | ********** | | | | |



## AUDIO (DECK B)

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| * | A-2007-040-A | AUDIO BOARD, COMPLETE (DECK B) | | | | |
| | | ********** | | | | |
| | | < CAPACITOR > | | | | |
| C11 | 1-163-131-00 | CERAMIC CHIP | 390PF | 5% | 50V | |
| C12 | 1-136-157-00 | FILM | 0.022uF | 5% | 50V | |
| C13 | 1-124-234-00 | ELECT | 22uF | 20% | 16V | |
| C18 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C21 | 1-163-131-00 | CERAMIC CHIP | 390PF | 5% | 50V | |
| C22 | 1-136-157-00 | FILM | 0.022uF | 5% | 50V | |
| C23 | 1-124-234-00 | ELECT | 22uF | 20% | 16V | |
| C28 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C31 | 1-124-234-00 | ELECT | 22uF | 20% | 16V | |
| C32 | 1-124-234-00 | ELECT | 22uF | 20% | 16V | |
| C33 | 1-124-234-00 | ELECT | 22uF | 20% | 16V | |
| C51 | 1-164-161-11 | CERAMIC CHIP | 0.0022uF | 10% | 100V | |
| C52 | 1-164-161-11 | CERAMIC CHIP | 0.0022uF | 10% | 100V | |
| C53 | 1-163-019-00 | CERAMIC CHIP | 0.0068uF | 10% | 50V | |
| C54 | 1-136-601-11 | FILM | 0.01uF | 5% | 630V | |
| C56 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V | |
| C57 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V | |
| C71 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V | |
| C80 | 1-124-234-00 | ELECT | 22uF | 20% | 16V | |
| C81 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V | |
| C82 | 1-136-157-00 | FILM | 0.022uF | 5% | 50V | |
| C83 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C84 | 1-136-478-11 | FILM | 470PF | 5% | 630V | |
| C85 | 1-136-433-11 | FILM | 100PF | 5% | 630V | |
| C86 | 1-163-143-00 | CERAMIC CHIP | 0.0012uF | 5% | 50V | |
| C87 | 1-136-273-91 | FILM | 75PF | 5% | 630V | |
| C88 | 1-163-003-11 | CERAMIC CHIP | 330PF | 10% | 50V | |
| C89 | 1-124-234-00 | ELECT | 22uF | 20% | 16V | |
| C90 | 1-107-584-11 | CERAMIC | 4PF | 0.25PF | 500V | |
| C91 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V | |
| C92 | 1-136-157-00 | FILM | 0.022uF | 5% | 50V | |
| C93 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C94 | 1-136-478-11 | FILM | 470PF | 5% | 630V | |
| C95 | 1-136-433-11 | FILM | 100PF | 5% | 630V | |
| C96 | 1-163-143-00 | CERAMIC CHIP | 0.0012uF | 5% | 50V | |
| C97 | 1-136-273-91 | FILM | 75PF | 5% | 630V | |
| C98 | 1-163-003-11 | CERAMIC CHIP | 330PF | 10% | 50V | |
| C99 | 1-164-005-11 | CERAMIC CHIP | 0.47uF | | 25V | |
| | | < CONNECTOR > | | | | |
| * CNP31 | 1-580-782-11 | CONNECTOR, BOARD TO BOARD | | | | |
| * CNP32 | 1-580-781-11 | PIN, CONNECTOR (PC BOARD) 7P | | | | |
| * CNP33 | 1-580-782-11 | CONNECTOR, BOARD TO BOARD | | | | |
| * CNP71 | 1-564-719-11 | PIN, CONNECTOR (SMALL TYPE) 3P | | | | |
| CNP72 | 1-764-902-11 | CONNECTOR, FFC/FPC 4P | | | | |
| * CNP75 | 1-564-718-11 | PIN, CONNECTOR (SMALL TYPE) 2P | | | | |

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| | | < DIODE > | | | | |
| D31 | 8-719-404-46 | DIODE | MA110 | | | |
| | | < IC > | | | | |
| IC31 | 8-759-106-02 | IC | uPC4570G2 | | | |
| IC81 | 8-759-106-56 | IC | uPC1297CA | | | |
| | | < COIL > | | | | |
| L81 | 1-410-780-11 | INDUCTOR | 27mH | | | |
| L91 | 1-410-780-11 | INDUCTOR | 27mH | | | |
| | | < TRANSISTOR > | | | | |
| Q51 | 8-729-822-05 | TRANSISTOR | 2SD1622-ST-TD | | | |
| Q52 | 8-729-822-05 | TRANSISTOR | 2SD1622-ST-TD | | | |
| Q53 | 8-729-822-05 | TRANSISTOR | 2SD1622-ST-TD | | | |
| Q71 | 8-729-216-22 | TRANSISTOR | 2SA1162-G | | | |
| | | < RESISTOR > | | | | |
| R11 | 1-216-099-00 | METAL CHIP | 120K | 5% | 1/10W | |
| R12 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W | |
| R13 | 1-216-100-00 | METAL GLAZE | 130K | 5% | 1/10W | |
| R14 | 1-216-068-00 | METAL CHIP | 6.2K | 5% | 1/10W | |
| R21 | 1-216-099-00 | METAL CHIP | 120K | 5% | 1/10W | |
| R22 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W | |
| R23 | 1-216-100-00 | METAL GLAZE | 130K | 5% | 1/10W | |
| R24 | 1-216-068-00 | METAL CHIP | 6.2K | 5% | 1/10W | |
| R31 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W | |
| R32 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W | |
| R33 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R51 | 1-216-097-91 | METAL GLAZE | 100K | 5% | 1/10W | |
| R52 | 1-216-097-91 | METAL GLAZE | 100K | 5% | 1/10W | |
| R53 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R54 | 1-216-309-00 | METAL CHIP | 5.6 | 5% | 1/10W | |
| R55 | 1-216-309-00 | METAL CHIP | 5.6 | 5% | 1/10W | |
| R57 | 1-216-298-00 | METAL CHIP | 2.2 | 5% | 1/10W | |
| R71 | 1-216-082-00 | METAL GLAZE | 24K | 5% | 1/10W | |
| R72 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W | |
| R73 | 1-216-089-91 | METAL GLAZE | 47K | 5% | 1/10W | |
| R74 | 1-216-089-91 | METAL GLAZE | 47K | 5% | 1/10W | |
| R81 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R82 | 1-216-085-00 | METAL CHIP | 33K | 5% | 1/10W | |
| R83 | 1-216-001-00 | METAL CHIP | 10 | 5% | 1/10W | |
| R84 | 1-216-101-00 | METAL CHIP | 150K | 5% | 1/10W | |
| R85 | 1-216-075-00 | METAL CHIP | 12K | 5% | 1/10W | |
| R91 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R92 | 1-216-085-00 | METAL CHIP | 33K | 5% | 1/10W | |
| R93 | 1-216-001-00 | METAL CHIP | 10 | 5% | 1/10W | |
| R94 | 1-216-101-00 | METAL CHIP | 150K | 5% | 1/10W | |
| R95 | 1-216-075-00 | METAL CHIP | 12K | 5% | 1/10W | |

| Ref. No. | Part No. | Description | | Remark |
|---|---|---|---|---|
| * CN807 | 1-568-954-11 | PIN, CONNECTOR 5P | | |
| | | < CONNECTOR > | | |
| CNP802 | 1-770-247-11 | SOCKET, CONNECTOR 41P | | |
| | | < DIODE > | | |
| D101 | 8-719-933-33 | DIODE | HZS6A1L | |
| D201 | 8-719-933-33 | DIODE | HZS6A1L | |
| D521 | 8-719-987-63 | DIODE | 1N4148M | |
| D522 | 8-719-987-63 | DIODE | 1N4148M | |
| D601 | 8-719-987-63 | DIODE | 1N4148M | (WA7ESA,WE505,WE705S) |
| D602 | 8-719-987-63 | DIODE | 1N4148M | (WA7ESA,WE505,WE705S) |
| D701 | 8-719-024-99 | DIODE | 11ES2-NTA2B | |
| D702 | 8-719-024-99 | DIODE | 11ES2-NTA2B | |
| D703 | 8-719-024-99 | DIODE | 11ES2-NTA2B | |
| D704 | 8-719-024-99 | DIODE | 11ES2-NTA2B | |
| D705 | 8-719-987-63 | DIODE | 1N4148M | |
| D706 | 8-719-987-63 | DIODE | 1N4148M | |
| D707 | 8-719-024-99 | DIODE | 11ES2-NTA2B | |
| D708 | 8-719-987-63 | DIODE | 1N4148M | |
| D709 | 8-719-933-33 | DIODE | HZS6A1L | |
| D710 | 8-719-933-33 | DIODE | HZS6A1L | |
| D711 | 8-719-933-33 | DIODE | HZS6A1L | |
| D712 | 8-719-933-38 | DIODE | HZS6B3L | |
| D713 | 8-719-987-63 | DIODE | 1N4148M | |
| D714 | 8-719-987-63 | DIODE | 1N4148M | |
| D715 | 8-719-987-63 | DIODE | 1N4148M | |
| D716 | 8-719-000-78 | DIODE | UZL-7L2 | |
| D801 | 8-719-987-63 | DIODE | 1N4148M | |
| D802 | 8-719-987-63 | DIODE | 1N4148M | |
| D803 | 8-719-987-63 | DIODE | 1N4148M | |
| D804 | 8-719-987-63 | DIODE | 1N4148M | |
| D805 | 8-719-987-63 | DIODE | 1N4148M | (WE605S,WE705S) |
| D901 | 8-719-313-43 | LED | SEL6210S-TH10 | (AUTO REC LEVEL) |
| D902 | 8-719-313-43 | LED | SEL6210S-TH10 | (SYNCHRO) (WE605S,WE705S) |
| | | < IC > | | |
| IC501 | 8-752-075-27 | IC | CXA1878Q | |
| IC502 | 8-759-634-51 | IC | M5218AP | |
| IC503 | 8-759-634-51 | IC | M5218AP | |
| IC601 | 8-759-822-38 | IC | LA6510 | |
| IC701 | 8-759-634-51 | IC | M5218AP | |
| IC801 | 8-752-871-45 | IC | CXP82224-043Q | |
| IC802 | 8-759-165-82 | IC | PST600E-T | |
| IC802 | 8-759-520-90 | IC | PST572E | |
| IC804 | 8-759-916-14 | IC | SN74HC04AN | |
| IC805 | 8-759-000-48 | IC | MC14052BCP | |
| IC901 | 8-741-810-59 | IC | SBX1810-59 | |
| | | < JACK > | | |
| J501 | 1-770-614-11 | JACK, PIN 4P (LINE IN/OUT) | | |
| J502 | 1-568-519-41 | JACK, LARGE TYPE (PHONES) | | |
| * J801 | 1-764-188-11 | JACK (SMALL TYPE) (DIA. 3.5) (CONTROL A) | | (WE605S,WE705S) |
| * J802 | 1-764-188-11 | JACK (SMALL TYPE) (DIA. 3.5) (CONTROL A) | | (WE605S,WE705S) |
| | | < FILTER > | | |
| LPF101 | 1-233-271-11 | FILTER, LOW PASS | | |
| LPF201 | 1-233-271-11 | FILTER, LOW PASS | | |
| | | < TRANSISTOR > | | |
| Q101 | 8-729-900-74 | TRANSISTOR | DTC143TS | |
| Q102 | 8-729-922-37 | TRANSISTOR | 2SD2144S | |
| Q201 | 8-729-900-74 | TRANSISTOR | DTC143TS | |
| Q202 | 8-729-922-37 | TRANSISTOR | 2SD2144S | |
| Q501 | 8-729-119-76 | TRANSISTOR | 2SA1175-HFE | |
| Q502 | 8-729-620-05 | TRANSISTOR | 2SC2603-EF | |
| Q503 | 8-729-620-05 | TRANSISTOR | 2SC2603-EF | |
| Q601 | 8-729-900-80 | TRANSISTOR | DTC114ES | |
| Q602 | 8-729-801-93 | TRANSISTOR | 2SD1387 | |
| Q603 | 8-729-801-93 | TRANSISTOR | 2SD1387 | |
| Q604 | 8-729-900-80 | TRANSISTOR | DTC114ES | (WE505,WE705S) |
| Q605 | 8-729-119-76 | TRANSISTOR | 2SA1175-HFE | (WE505, WE705S) |
| Q606 | 8-729-900-80 | TRANSISTOR | DTC114ES | |
| Q701 | 8-729-141-83 | TRANSISTOR | 2SB1094-LK | |
| Q702 | 8-729-209-15 | TRANSISTOR | 2SD2012 | |
| Q703 | 8-729-141-83 | TRANSISTOR | 2SB1094-LK | |
| Q704 | 8-729-620-05 | TRANSISTOR | 2SC2603-EF | |
| Q705 | 8-729-900-80 | TRANSISTOR | DTC114ES | (WA7ESA,WE605S, WR550Z) |
| Q706 | 8-729-900-80 | TRANSISTOR | DTC114ES | (WA7ESA,WE605S, WR550Z) |
| Q707 | 8-729-119-76 | TRANSISTOR | 2SA1175-HFE | |
| Q708 | 8-729-140-04 | TRANSISTOR | 2SB1116A-L | |
| Q709 | 8-729-224-62 | TRANSISTOR | 2SK246-GR | (WA7ESA) |
| Q801 | 8-729-900-89 | TRANSISTOR | DTC144ES | |
| Q802 | 8-729-900-74 | TRANSISTOR | DTC143TS | (WA7ESA,WE605S, WR550Z) |
| Q803 | 8-729-620-05 | TRANSISTOR | 2SC2603-EF | (WE605S, WE705S) |
| Q804 | 8-729-119-76 | TRANSISTOR | 2SA1175-HFE | |
| Q805 | 8-729-900-61 | TRANSISTOR | DTA114ES | |
| Q806 | 8-729-900-80 | TRANSISTOR | DTC114ES | |
| Q807 | 8-729-900-65 | TRANSISTOR | DTA144ES | (WA7ESA,WE505, WE705S) |
| | | < RESISTOR > | | |
| R101 | 1-249-429-11 | CARBON | 10K | 5% 1/4W |
| R102 | 1-247-887-00 | CARBON | 220K | 5% 1/4W |
| R103 | 1-249-441-11 | CARBON | 100K | 5% 1/4W |
| R104 | 1-249-420-11 | CARBON | 1.8K | 5% 1/4W |
| R105 | 1-249-423-11 | CARBON | 3.3K | 5% 1/4W |
| R106 | 1-247-842-11 | CARBON | 3K | 5% 1/4W |
| R107 | 1-249-417-11 | CARBON | 1K | 5% 1/4W |
| R108 | 1-249-424-11 | CARBON | 3.9K | 5% 1/4W |
| R109 | 1-249-429-11 | CARBON | 10K | 5% 1/4W |
| R110 | 1-249-425-11 | CARBON | 4.7K | 5% 1/4W |
| R111 | 1-249-421-11 | CARBON | 2.2K | 5% 1/4W |
| R112 | 1-249-430-11 | CARBON | 12K | 5% 1/4W |
| R113 | 1-249-417-11 | CARBON | 1K | 5% 1/4W |
| R114 | 1-249-421-11 | CARBON | 2.2K | 5% 1/4W |
| R115 | 1-249-433-11 | CARBON | 22K | 5% 1/4W |
| R116 | 1-249-423-11 | CARBON | 3.3K | 5% 1/4W |
| R117 | 1-249-429-11 | CARBON | 10K | 5% 1/4W |
| R118 | 1-249-409-11 | CARBON | 220 | 5% 1/4W |
| R119 | 1-249-417-11 | CARBON | 1K | 5% 1/4W |
| R120 | 1-249-437-11 | CARBON | 47K | 5% 1/4W |
| R121 | 1-249-437-11 | CARBON | 47K | 5% 1/4W |
| R201 | 1-249-429-11 | CARBON | 10K | 5% 1/4W |
| R202 | 1-247-887-00 | CARBON | 220K | 5% 1/4W |
| R203 | 1-249-441-11 | CARBON | 100K | 5% 1/4W |
| R204 | 1-249-420-11 | CARBON | 1.8K | 5% 1/4W |
| R205 | 1-249-423-11 | CARBON | 3.3K | 5% 1/4W |
| R206 | 1-247-842-11 | CARBON | 3K | 5% 1/4W |
| R207 | 1-249-417-11 | CARBON | 1K | 5% 1/4W |
| R208 | 1-249-424-11 | CARBON | 3.9K | 5% 1/4W |
| R209 | 1-249-429-11 | CARBON | 10K | 5% 1/4W |
| R210 | 1-249-425-11 | CARBON | 4.7K | 5% 1/4W |
| R211 | 1-249-421-11 | CARBON | 2.2K | 5% 1/4W |
| R212 | 1-249-430-11 | CARBON | 12K | 5% 1/4W |
| R213 | 1-249-417-11 | CARBON | 1K | 5% 1/4W |
| R214 | 1-249-421-11 | CARBON | 2.2K | 5% 1/4W |
| R215 | 1-249-433-11 | CARBON | 22K | 5% 1/4W |
| R216 | 1-249-423-11 | CARBON | 3.3K | 5% 1/4W (EXCEPT WE505) |
| R217 | 1-249-429-11 | CARBON | 10K | 5% 1/4W |
| R218 | 1-249-409-11 | CARBON | 220 | 5% 1/4W |
| R219 | 1-249-417-11 | CARBON | 1K | 5% 1/4W |
| R220 | 1-249-437-11 | CARBON | 47K | 5% 1/4W |
| R221 | 1-249-437-11 | CARBON | 47K | 5% 1/4W |
| R501 | 1-215-455-00 | METAL | 27K | 1% 1/4W |
| R502 | 1-215-452-00 | METAL | 20K | 1% 1/4W |
| R503 | 1-249-417-11 | CARBON | 1K | 5% 1/4W |
| R504 | 1-249-428-11 | CARBON | 8.2K | 5% 1/4W |
| R505 | 1-247-903-00 | CARBON | 1M | 5% 1/4W |
| R507 | 1-249-429-11 | CARBON | 10K | 5% 1/4W |
| R508 | 1-249-413-11 | CARBON | 470 | 5% 1/4W |
| R509 | 1-249-417-11 | CARBON | 1K | 5% 1/4W |
| R510 | 1-249-437-11 | CARBON | 47K | 5% 1/4W |
| R511 | 1-249-429-11 | CARBON | 10K | 5% 1/4W |
| R512 | 1-249-413-11 | CARBON | 470 | 5% 1/4W |
| R521 | 1-249-433-11 | CARBON | 22K | 5% 1/4W |
| R522 | 1-249-426-11 | CARBON | 5.6K | 5% 1/4W |
| R523 | 1-249-436-11 | CARBON | 39K | 5% 1/4W |
| R524 | 1-249-425-11 | CARBON | 4.7K | 5% 1/4W |
| R525 | 1-249-425-11 | CARBON | 4.7K | 5% 1/4W |
| R526 | 1-249-441-11 | CARBON | 100K | 5% 1/4W |
| R527 | 1-249-441-11 | CARBON | 100K | 5% 1/4W |
| R528 | 1-247-852-11 | CARBON | 7.5K | 5% 1/4W |
| R531 | 1-249-437-11 | CARBON | 47K | 5% 1/4W |
| R532 | 1-249-437-11 | CARBON | 47K | 5% 1/4W |
| R533 | 1-249-437-11 | CARBON | 47K | 5% 1/4W |
| R601 | 1-247-807-31 | CARBON | 100 | 5% 1/4W |
| R602 | 1-247-807-31 | CARBON | 100 | 5% 1/4W |
| R603 | 1-249-433-11 | CARBON | 22K | 5% 1/4W |
| R604 | 1-249-433-11 | CARBON | 22K | 5% 1/4W |
| R605 | 1-249-430-11 | CARBON | 12K | 5% 1/4W |
| R606 | 1-249-430-11 | CARBON | 12K | 5% 1/4W |
| R607 | 1-247-858-11 | CARBON | 13K | 5% 1/4W |
| R608 | 1-247-858-11 | CARBON | 13K | 5% 1/4W |
| R609 | 1-247-858-11 | CARBON | 13K | 5% 1/4W |
| R610 | 1-247-858-11 | CARBON | 13K | 5% 1/4W |
| R613 | 1-249-422-11 | CARBON | 2.7K | 5% 1/4W |
| R614 | 1-249-422-11 | CARBON | 2.7K | 5% 1/4W |
| R615 | 1-247-854-11 | CARBON | 9.1K | 5% 1/4W |
| R616 | 1-247-854-11 | CARBON | 9.1K | 5% 1/4W |
| R617 | 1-249-429-11 | CARBON | 10K | 5% 1/4W |
| R618 | 1-249-421-11 | CARBON | 2.2K | 5% 1/4W |
| R619 | 1-249-429-11 | CARBON | 10K | 5% 1/4W |
| R620 | 1-249-421-11 | CARBON | 2.2K | 5% 1/4W |
| R621 | 1-249-435-11 | CARBON | 33K | 5% 1/4W (WE505,WE705S) |
| R622 | 1-247-848-11 | CARBON | 5.1K | 5% 1/4W (WE505,WE705S) |
| R623 | 1-249-437-11 | CARBON | 47K | 5% 1/4W (WE505,WE705S) |
| R624 | 1-249-437-11 | CARBON | 47K | 5% 1/4W (WE505,WE705S) |
| R701 | 1-249-414-11 | CARBON | 560 | 5% 1/4W |
| R702 | 1-249-429-11 | CARBON | 10K | 5% 1/4W (WA7ESA,WE605S,WR550Z) |
| R703 | 1-249-419-11 | CARBON | 1.5K | 5% 1/4W |
| R704 | 1-249-425-11 | CARBON | 4.7K | 5% 1/4W |
| R705 | 1-249-427-11 | CARBON | 6.8K | 5% 1/4W |
| R706 | 1-249-419-11 | CARBON | 1.5K | 5% 1/4W |
| R707 | 1-249-429-11 | CARBON | 10K | 5% 1/4W |
| R708 | 1-249-419-11 | CARBON | 1.5K | 5% 1/4W |
| R709 | 1-249-425-11 | CARBON | 4.7K | 5% 1/4W |
| R710 | 1-249-417-11 | CARBON | 1K | 5% 1/4W |
| R711 | 1-249-427-11 | CARBON | 6.8K | 5% 1/4W |
| R712 | 1-249-427-11 | CARBON | 6.8K | 5% 1/4W |
| R713 | 1-249-417-11 | CARBON | 1K | 5% 1/4W |
| R714 | 1-249-429-11 | CARBON | 10K | 5% 1/4W |
| R715 | 1-249-422-11 | CARBON | 2.7K | 5% 1/4W |
| R716 | 1-249-433-11 | CARBON | 22K | 5% 1/4W |
| R717 | 1-249-429-11 | CARBON | 10K | 5% 1/4W |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R718 | 1-249-436-11 | CARBON | 39K | 5% 1/4W | |
| R719 | 1-249-430-11 | CARBON | 12K | 5% 1/4W | |
| ⚠ R720 | 1-219-136-11 | FUSIBLE | 0.22 | 10% 1/4W F | |
| R721 | 1-249-415-11 | CARBON | 680 | 5% 1/4W | (WA7ESA) |
| R721 | 1-249-419-11 | CARBON | 1.5K | 5% 1/4W | (EXCEPT WA7ESA) |
| ⚠ R722 | 1-219-137-11 | FUSIBLE | 0.33 | 10% 1/4W F | |
| ⚠ R723 | 1-219-137-11 | FUSIBLE | 0.33 | 10% 1/4W F | |
| R724 | 1-249-412-11 | CARBON | 390 | 5% 1/4W | (WA7ESA) |
| R805 | 1-249-429-11 | CARBON | 10K | 5% 1/4W | |
| R806 | 1-249-429-11 | CARBON | 10K | 5% 1/4W | |
| R807 | 1-249-429-11 | CARBON | 10K | 5% 1/4W | |
| R808 | 1-249-429-11 | CARBON | 10K | 5% 1/4W | |
| R809 | 1-249-441-11 | CARBON | 100K | 5% 1/4W | |
| R810 | 1-249-417-11 | CARBON | 1K | 5% 1/4W | |
| R811 | 1-249-433-11 | CARBON | 22K | 5% 1/4W | |
| R812 | 1-249-433-11 | CARBON | 22K | 5% 1/4W | |
| R813 | 1-247-807-31 | CARBON | 100 | 5% 1/4W | |
| R814 | 1-249-433-11 | CARBON | 22K | 5% 1/4W | |
| R815 | 1-249-435-11 | CARBON | 33K | 5% 1/4W | |
| R816 | 1-249-441-11 | CARBON | 100K | 5% 1/4W | |
| R817 | 1-249-426-11 | CARBON | 5.6K | 5% 1/4W | |
| R818 | 1-249-422-11 | CARBON | 2.7K | 5% 1/4W | |
| R819 | 1-249-428-11 | CARBON | 8.2K | 5% 1/4W | |
| R820 | 1-249-428-11 | CARBON | 8.2K | 5% 1/4W | |
| R821 | 1-249-430-11 | CARBON | 12K | 5% 1/4W | |
| R822 | 1-247-852-11 | CARBON | 7.5K | 5% 1/4W | |
| R823 | 1-249-425-11 | CARBON | 4.7K | 5% 1/4W | |
| R824 | 1-249-425-11 | CARBON | 4.7K | 5% 1/4W | |
| R825 | 1-249-429-11 | CARBON | 10K | 5% 1/4W | |
| R826 | 1-249-429-11 | CARBON | 10K | 5% 1/4W | |
| R827 | 1-249-425-11 | CARBON | 4.7K | 5% 1/4W | (WE605S,WE705S) |
| R828 | 1-249-429-11 | CARBON | 10K | 5% 1/4W | (WE605S,WE705S) |
| R829 | 1-249-393-11 | CARBON | 10 | 5% 1/4W | (WE605S,WE705S) |
| R830 | 1-249-421-11 | CARBON | 2.2K | 5% 1/4W | |
| R831 | 1-249-421-11 | CARBON | 2.2K | 5% 1/4W | |
| R832 | 1-249-434-11 | CARBON | 27K | 5% 1/4W | |
| R833 | 1-249-434-11 | CARBON | 27K | 5% 1/4W | (WA7ESA,WE705S) |
| R834 | 1-247-887-00 | CARBON | 220K | 5% 1/4W | |
| R835 | 1-247-887-00 | CARBON | 220K | 5% 1/4W | |
| R836 | 1-247-887-00 | CARBON | 220K | 5% 1/4W | |
| R837 | 1-247-887-00 | CARBON | 220K | 5% 1/4W | |
| R838 | 1-249-422-11 | CARBON | 2.7K | 5% 1/4W | |
| R839 | 1-249-422-11 | CARBON | 2.7K | 5% 1/4W | |
| R840 | 1-249-422-11 | CARBON | 2.7K | 5% 1/4W | |
| R841 | 1-249-429-11 | CARBON | 10K | 5% 1/4W | |
| R842 | 1-247-862-11 | CARBON | 20K | 5% 1/4W | |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R844 | 1-249-421-11 | CARBON | 2.2K | 5% 1/4W | |
| R845 | 1-247-874-11 | CARBON | 62K | 5% 1/4W | |
| R846 | 1-247-866-11 | CARBON | 30K | 5% 1/4W | |
| R847 | 1-249-431-11 | CARBON | 15K | 5% 1/4W | |
| R848 | 1-247-852-11 | CARBON | 7.5K | 5% 1/4W | |
| R849 | 1-249-429-11 | CARBON | 10K | 5% 1/4W | |
| R850 | 1-249-429-11 | CARBON | 10K | 5% 1/4W | |
| R851 | 1-249-429-11 | CARBON | 10K | 5% 1/4W | |
| R852 | 1-249-429-11 | CARBON | 10K | 5% 1/4W | |
| R853 | 1-249-434-11 | CARBON | 27K | 5% 1/4W | |
| R854 | 1-249-434-11 | CARBON | 27K | 5% 1/4W | |
| R855 | 1-249-434-11 | CARBON | 27K | 5% 1/4W | |
| R856 | 1-249-434-11 | CARBON | 27K | 5% 1/4W | |
| R857 | 1-249-421-11 | CARBON | 2.2K | 5% 1/4W | |
| R858 | 1-249-421-11 | CARBON | 2.2K | 5% 1/4W | |
| R859 | 1-249-421-11 | CARBON | 2.2K | 5% 1/4W | |
| R860 | 1-249-434-11 | CARBON | 27K | 5% 1/4W | |
| R861 | 1-249-434-11 | CARBON | 27K | 5% 1/4W | (WA7ESA,WE705S) |
| R862 | 1-249-441-11 | CARBON | 100K | 5% 1/4W | |
| R863 | 1-247-807-31 | CARBON | 100 | 5% 1/4W | |
| R901 | 1-249-413-11 | CARBON | 470 | 5% 1/4W | |
| R902 | 1-249-413-11 | CARBON | 470 | 5% 1/4W | (WE605S,WE705S) |
| R903 | 1-249-441-11 | CARBON | 100K | 5% 1/4W | (WE505,WE705S) |
| R904 | 1-247-807-31 | CARBON | 100 | 5% 1/4W | |
| R911 | 1-249-418-11 | CARBON | 1.2K | 5% 1/4W | |
| R912 | 1-249-420-11 | CARBON | 1.8K | 5% 1/4W | |
| R913 | 1-249-422-11 | CARBON | 2.7K | 5% 1/4W | |
| R914 | 1-249-424-11 | CARBON | 3.9K | 5% 1/4W | |
| R915 | 1-249-427-11 | CARBON | 6.8K | 5% 1/4W | |
| R916 | 1-249-431-11 | CARBON | 15K | 5% 1/4W | |
| R917 | 1-249-437-11 | CARBON | 47K | 5% 1/4W | |
| R921 | 1-249-418-11 | CARBON | 1.2K | 5% 1/4W | |
| R922 | 1-249-420-11 | CARBON | 1.8K | 5% 1/4W | |
| R923 | 1-249-422-11 | CARBON | 2.7K | 5% 1/4W | |
| R924 | 1-249-424-11 | CARBON | 3.9K | 5% 1/4W | |
| R925 | 1-249-427-11 | CARBON | 6.8K | 5% 1/4W | |
| R926 | 1-249-431-11 | CARBON | 15K | 5% 1/4W | |
| R927 | 1-249-437-11 | CARBON | 47K | 5% 1/4W | |
| R931 | 1-249-418-11 | CARBON | 1.2K | 5% 1/4W | |
| R932 | 1-249-420-11 | CARBON | 1.8K | 5% 1/4W | |
| R933 | 1-249-422-11 | CARBON | 2.7K | 5% 1/4W | |
| R934 | 1-249-424-11 | CARBON | 3.9K | 5% 1/4W | (WE605S,WE705S) |
| R935 | 1-249-427-11 | CARBON | 6.8K | 5% 1/4W | |
| R936 | 1-249-431-11 | CARBON | 15K | 5% 1/4W | |
| R937 | 1-249-437-11 | CARBON | 47K | 5% 1/4W | |
| R939 | 1-249-424-11 | CARBON | 3.9K | 5% 1/4W | (WA7ESA,WE505,WR550Z) |
| R941 | 1-249-418-11 | CARBON | 1.2K | 5% 1/4W | |
| R942 | 1-249-420-11 | CARBON | 1.8K | 5% 1/4W | |

| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.<br>Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.<br>Ne les remplacer que par une pièce portant le numéro spécifié. |
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| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R943 | 1-249-422-11 | CARBON | 2.7K | 5% 1/4W | |
| R944 | 1-249-424-11 | CARBON | 3.9K | 5% 1/4W | |
| R945 | 1-249-427-11 | CARBON | 6.8K | 5% 1/4W | |
| R946 | 1-249-431-11 | CARBON | 15K | 5% 1/4W | |
| R947 | 1-249-437-11 | CARBON | 47K | 5% 1/4W | |
| | | < VARIABLE RESISTOR > | | | |
| RV101 | 1-241-630-11 | RES, ADJ, CARBON 10K (DOLBY LEVEL L) | | | |
| RV201 | 1-241-630-11 | RES, ADJ, CARBON 10K (DOLBY LEVEL R) | | | |
| RV601 | 1-241-765-11 | RES, ADJ, CARBON 22K (PITCH CONTROL) | | | (WE505,WE705S) |
| RV901 | 1-241-797-11 | RES, VAR, CARBON 20K (AUTO REC LEVEL) | | | |
| RV902 | 1-225-173-11 | RES, VAR, CARBON 50K (PITCH CONTROL) | | | (WE505,WE705S) |
| | | < SWITCH > | | | |
| ⚠ S001 | 1-762-581-11 | SWITCH, AC POWER PUSH (1 KEY) (POWER) | | | (WE505,WE705S) |
| S801 | 1-554-118-00 | SWITCH, PUSH (1 KEY) (POWER) | | | (WA7ESA,WE605S,WR550Z) |
| S911 | 1-554-303-21 | SWITCH, TACTILE (■ CLEAR) | | | |
| S912 | 1-554-303-21 | SWITCH, TACTILE (▷ FRONT) | | | |
| S913 | 1-554-303-21 | SWITCH, TACTILE (◁ BACK) | | | |
| S914 | 1-554-303-21 | SWITCH, TACTILE (◀◀) | | | |
| S915 | 1-554-303-21 | SWITCH, TACTILE (▶▶) | | | |
| S916 | 1-554-303-21 | SWITCH, TACTILE (REC) | | | |
| S917 | 1-554-303-21 | SWITCH, TACTILE (RESET) | | | |
| S918 | 1-554-303-21 | SWITCH, TACTILE (MEMORY) | | | |
| S921 | 1-554-303-21 | SWITCH, TACTILE (■) | | | |
| S922 | 1-554-303-21 | SWITCH, TACTILE (PAUSE) | | | |
| S923 | 1-554-303-21 | SWITCH, TACTILE (▷) | | | |
| S924 | 1-554-303-21 | SWITCH, TACTILE (◁) | | | |
| S925 | 1-554-303-21 | SWITCH, TACTILE (REC MUTE) | | | |
| S926 | 1-554-303-21 | SWITCH, TACTILE (◀◀ /-RMS+) | | | |
| S927 | 1-554-303-21 | SWITCH, TACTILE (▶▶ /-RMS+) | | | |
| S928 | 1-554-118-00 | SWITCH, PUSH (1 KEY)(PITCH CONTROL) | | | (WE505,WE705S) |
| S931 | 1-554-303-21 | SWITCH, TACTILE (RESET) | | | |
| S932 | 1-554-303-21 | SWITCH, TACTILE (MEMORY) | | | |
| S933 | 1-554-303-21 | SWITCH, TACTILE (FADER) (WE605S,WE705S) | | | |
| S934 | 1-554-303-21 | SWITCH, TACTILE (ARL) (WE605S,WE705S) | | | |
| S935 | 1-554-303-21 | SWITCH, TACTILE (SYNCHRO) (WE605S, | | | WE705S) |
| S935 | 1-554-303-21 | SWITCH, TACTILE (ARL) (WA7ESA,WE505, | | | WR505Z) |
| S936 | 1-762-567-11 | SWITCH, SLIDE (DOLBY NR) | | | |
| S937 | 1-762-609-11 | SWITCH, SLIDE (DOLBY NR) (EXCEPT WE505) | | | |
| S937 | 1-762-608-11 | SWITCH, SLIDE (DOLBY NR) (WE505) | | | |
| S938 | 1-554-303-21 | SWITCH, TACTILE (FADER) (WA7ESA,WE505, | | | WR550Z) |
| S941 | 1-554-303-21 | SWITCH, TACTILE (DISPLAY/START ) | | | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| S942 | 1-554-303-21 | SWITCH, TACTILE (RMS/START) | |
| S943 | 1-554-303-21 | SWITCH, TACTILE (CHECK) | |
| S944 | 1-554-303-21 | SWITCH, TACTILE (SET) | |
| S945 | 1-554-303-21 | SWITCH, TACTILE (AUTO CAL/START ) | |
| S946 | 1-554-303-21 | SWITCH, TACTILE (HIGH/NORMAL) | |
| S947 | 1-762-609-11 | SWITCH, SLIDE (DIRECTION MODE) | |
| | | < TEST PIN > | |
| * TP801 | 1-560-060-00 | PIN, CONNECTOR 2P | |
| | | < INDICATOR TUBE > | |
| VFD901 | 1-517-263-11 | INDICATOR TUBE, FLUORESCENT | |
| | | < VIBRATOR > | |
| X801 | 1-579-175-11 | VIBRATOR, CERAMIC (10MHz) | |
| ********** | | | |
| * | 1-634-841-14 | LEAF SW BOARD (DECK A) (WA7ESA,WE705S) | |
| * | 1-638-020-11 | LEAF SW BOARD (DECK A) (WE505,WE605S, | WR550Z) |
| | | ********** | |
| | | < CONNECTOR > | |
| * CNP81 | 1-568-850-11 | SOCKET, CONNECTOR 7P (WE505,WE605S, | WR550Z) |
| * CNP81 | 1-568-852-11 | SOCKET, CONNECTOR 9P (WA7ESA,WE705S) | |
| | | < IC > | |
| IC81 | 8-749-924-10 | IC NJL5165K-B (H1) | |
| IC82 | 8-749-924-10 | IC NJL5165K-B (H1) (WA7ESA,WE705S) | |
| | | < RESISTOR > | |
| R84 | 1-249-417-11 | CARBON 1K | 5% 1/4W |
| R85 | 1-249-408-11 | CARBON 180 | 5% 1/4W |
| R86 | 1-249-408-11 | CARBON 180 | 5% 1/4W (WA7ESA, WE705S) |
| | | < SWITCH > | |
| S81 | 1-571-958-11 | SWITCH, PUSH (1 KEY) (STOP) | |
| S82 | 1-571-281-21 | SWITCH, LEAF (CrO2) | |
| S86 | 1-571-281-21 | SWITCH, LEAF (HALF) | |
| ********** | | | |
| * | 1-634-841-14 | LEAF SW BOARD (DECK B) (WA7ESA,WE705S) | |
| * | 1-638-020-11 | LEAF SW BOARD (DECK B) (WE505,WE605S, | WR550Z) |
| | | ********** | |
| | | < CONNECTOR > | |
| * CNP81 | 1-568-850-11 | SOCKET, CONNECTOR 7P (WE505,WE605S, | WR550Z) |

| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.<br>Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.<br>Ne les remplacer que par une pièce portant le numéro spécifié. |
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## LEAF SW (DECK B)

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| * CNP81 | 1-568-852-11 | SOCKET, CONNECTOR 9P (WA7ESA,WE705S) | | | |
| | | < IC > | | | |
| IC81 | 8-749-924-10 | IC NJL5165K-B (H1) | | | |
| IC82 | 8-749-924-10 | IC NJL5165K-B (H1) (WA7ESA,WE705S) | | | |
| | | < RESISTOR > | | | |
| R81 | 1-249-414-11 | CARBON | 560 | 5% 1/4W | |
| R82 | 1-247-818-11 | CARBON | 300 | 5% 1/4W | |
| R83 | 1-247-834-11 | CARBON | 1.3K | 5% 1/4W | |
| R84 | 1-249-417-11 | CARBON | 1K | 5% 1/4W | |
| R85 | 1-249-408-11 | CARBON | 180 | 5% 1/4W | |
| R86 | 1-249-408-11 | CARBON | 180 | 5% 1/4W | (WA7ESA,WE705S) |
| | | < SWITCH > | | | |
| S81 | 1-571-958-11 | SWITCH, PUSH (1 KEY) (STOP) | | | |
| S82 | 1-571-281-21 | SWITCH, LEAF (CrO2) | | | |
| S83 | 1-571-281-21 | SWITCH, LEAF (METAL) | | | |
| S84 | 1-571-281-21 | SWITCH, LEAF (ERASER PROOF (SIDE A)) | | | |
| S85 | 1-571-281-21 | SWITCH, LEAF (ERASER PROOF (SIDE A)) | | | |
| S86 | 1-571-281-21 | SWITCH, LEAF (HALF) | | | |

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MISCELLANEOUS
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| | | | |
|---|---|---|---|
| ⚠ 9 | 1-551-188-99 | CORD, POWER (E) | |
| ⚠ 9 | 1-558-945-21 | CORD, POWER (POLAR.SPT-1) (US,CND,PA) | |
| ⚠ 9 | 1-575-651-21 | CORD, POWER (AEP,G,MY,SP,CH) | |
| ⚠ 9 | 1-696-586-11 | CORD, POWER (UK) | |
| ⚠ 9 | 1-696-845-11 | CORD, POWER (AUS) | |
| ⚠ 10 | 1-569-007-11 | ADAPTER, CONVERSION 2P (E) | |
| ⚠ 10 | 1-569-008-21 | ADAPTER, CONVERSION 2P (CH) | |
| 65 | 1-769-882-11 | WIRE (FLAT TYPE) (7 CORE) (WE505,WE605S, | WR550Z) |
| 65 | 1-769-912-11 | WIRE (FLAT TYPE) (9 CORE) (WA7ESA,WE705S) | |
| 74 | 1-769-598-11 | WIRE (FLAT TYPE) (41 CORE) | |
| 121 | 1-638-983-11 | MOTOR FLEXIBLE BOARD | |
| HP101 | A-2004-526-A | DECK ASSY, HEAD (PLAYBACK) (WE505, | WE605S,WR550Z) |
| HP101 | A-2004-548-A | DECK ASSY, HEAD (PLAYBACK) (WA7ESA, | WE705S) |
| HRPE101 | A-2004-527-A | DECK ASSY, HEAD (RECORD/PLAYBACK/ERASE) | |
| M1 | X-3365-377-2 | MOTOR ASSY (CAPSTAN) | |
| M2 | X-3365-501-2 | MOTOR ASSY (REEL) | |
| ⚠ S701 | 1-692-155-11 | SELECTOR, POWER VOLTAGE (VOLTAGE | SELECTOR) (E) |
| ⚠ T801 | 1-427-782-11 | TRANSFORMER, POWER (US,CND,PA) | |
| ⚠ T801 | 1-427-783-11 | TRANSFORMER, POWER (AEP,UK,G,AUS,MY,SP, | CH) |
| ⚠ T801 | 1-427-784-11 | TRANSFORMER, POWER (E) | |

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ACCESSORIES & PACKING MATERIALS
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|---|---|---|
| | 1-473-598-11 | REMOTE COMMANDER (RM-J910) (WA7ESA :CND) |
| | 1-551-734-11 | CORD, CONNECTION |
| ⚠ | 1-569-007-11 | ADAPTER, CONVERSION 2P (E) |
| ⚠ | 1-569-008-21 | ADAPTER, CONVERSION 2P (CH) |
| | 3-798-411-11 | MANUAL, INSTRUCTION (ENGLISH/FRENCH/ SPANISH/PORTUGUESE) (AEP) |
| | 3-798-411-21 | MANUAL, INSTRUCTION (ENGLISH) (UK) |
| | 3-798-411-41 | MANUAL, INSTRUCTION (GERMAN/DUTCH/ SWEDISH/ITALIAN) (AEP) |
| | 3-798-411-51 | MANUAL, INSTRUCTION (GERMAN) (G) |
| | 3-810-716-11 | MANUAL, INSTRUCTION (ENGLISH) (US,CND, AUS,PA) |
| | 3-810-716-21 | MANUAL, INSTRUCTION (FRENCH) (CND) |
| | 3-810-716-61 | MANUAL, INSTRUCTION (ENGLISH/FRENCH/ SPANISH/CHINESE) (E,MY,SP,CH) |
| | 3-810-765-11 | MANUAL(CONTROL-A1),INSTRUCTION (ENGLISH) (WE605S:US,AUS,PA) |
| | 3-810-765-21 | MANUAL(CONTROL-A1),INSTRUCTION (ENGLISH/FRENCH/SPANISH/GERMAN/DUTCH/ SWEDISH/ITALIAN/PORTUGUSE/CHINESE) (WE605S:CND,E,MY,SP,CH) |
| * | 3-932-083-01 | CUSHION (EXCEPT WA7ESA) |
| * | 3-934-283-01 | CARTON, INDIVIDUAL (WE505) |
| * | 3-934-284-01 | CARTON, INDIVIDUAL (WE605S:US,CND,E,AUS, PA) |
| * | 3-936-086-01 | CUSHION (WA7ESA) |
| * | 3-934-285-01 | CARTON, INDIVIDUAL (WE705S) |
| * | 3-934-287-01 | CARTON, INDIVIDUAL (WA7ESA) |
| * | 3-935-092-01 | INDIVIDUAL CARTON (WE605S:MY,SP,CH) |
| * | 3-935-644-01 | INDIVIDUAL CARTON (WR550Z) |
| | 4-981-643-01 | COVER BATTERY (FOR RM-J910) (WA7ESA :CND) |

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|---|---|---|
| #1 | 7-682-548-04 | SCREW +BVTT 3X8 (S) |
| #2 | 7-685-871-01 | SCREW +BVTT 3X6 (S) |
| #3 | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 N-S |
| #4 | 7-685-134-19 | SCREW (+ PTPWH) (2.6X8) |
| #5 | 7-621-773-95 | SCREW +BVTT 2.6X6 (S) |
| #6 | 7-621-775-00 | SCREW +B 2.6X3 |
| #7 | 7-627-556-08 | SCREW +P 2.6X2.8 |

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## HARDWARE LIST

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| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |
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